CHARLES H. THURSTON
Mayor
Cambridge, Massachusetts
1906

City of Cambridge

Massachusetts

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THE MAYOR'S ADDRESS

AT THE

ORGANIZATION OF THE CITY GOVERNMENT

JANUARY 1, 1906

AND

THE ANNUAL REPORTS

MADE TO THE CITY COUNCIL

FOR THE YEAR 1905

PUBLISHED BY ORDER OF THE CITY COUNCIL
UNDER THE DIRECTION OF THE
CITY CLERK

J·A·CUMMINGS
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INAUGURAL ADDRESS

OF

HON. CHARLES H. THURSTON

JANUARY 1, 1906

Gentlemen of the City Council: —

We have gathered here, this the first day of the New Year, to inaugurate the sixty-first City Government to conduct the affairs of our municipality.

We all realize that the task which has been imposed upon us by our fellow-citizens is one which will require the most unselfish devotion to our work, if we are to give the City the administration which the people have a right to demand. We must realize that the people have entrusted to us the responsibility of conducting the business of a great public corporation,— with a population of nearly one hundred thousand and an assessed valuation of over one hundred million dollars.

The administration of the affairs of a city like Cambridge, with its divergent, though not necessarily conflicting interests, is a serious undertaking and one which must be approached only with a determination to do that which shall be beneficial to the City without a thought of the effect our actions may have upon our own ambitions.

All political differences should be dropped when we take the oath to faithfully, honestly, and impartially administer the affairs of the City, and we should give our best efforts to assure the peace, happiness, and protection our citizens have elected us to secure for

them. We are to impose and to collect taxes amounting to over two million dollars, and the manner in which we dispense this great amount of money is the basis upon which the citizens and taxpayers will judge us when we give an account of our stewardship next December.

The best interest of the City will be secured by a determination on our part that we shall incur no unnecessary or extravagant expenditures; that we shall insist on a dollar's worth for every dollar expended; that we shall carefully make appropriations and insist that all Departments shall live within the appropriations made, and finally, that we must not meet current expenses by issuing bonds.

Every act of mine will be governed solely by what I consider to be for the best interest of the City of Cambridge, and I have no doubt that I shall receive the hearty co-operation and support of both branches of the City Council in an endeavor to give to the City an honest, upright, businesslike administration, which shall redound to the credit of all who are part of it.

We are confronted with the necessity of providing for the annual current expenses of all the Departments; for many incidentals as well as the amounts necessary for interest and payments to the Sinking Funds. It should be our aim to make the burden of taxation as light as is possible, not by refusing needed appropriations, but by careful oversight and strict economy, — always remembering that we are spending money which in many cases represents the hard-earned dollars of our worthy fellow-citizens, whose means are limited. It is the manner in which we spend the money as well as the amount we spend that the taxpayers will watch and criticise.

With these ideas in mind it is well for us to study the reports of the various Departments and to consider their needs and desires. I hope that every member of the City Council will make it a duty to at once become familiar with the reports of every Department.

I propose at this time to mention briefly a few matters which I believe to be of great importance.

First, let us glance at the condition of our

FINANCES.

The funded debt, valuation, borrowing capacity and limit of taxation are as follows: —

	1905.
Funded City Debt	$6,178,850 00
Sinking Fund	845,183 89
Net Funded City Debt	$5,333,666 11
Funded Water Debt	$3,646,600 00
Sinking Funds	1,382,828 84
Net Funded Water Debt	$2,263,771 16
Net Valuation, 1905	$102,378,551 00
Borrowing Capacity	522,929 30
Limit of Taxation for Municipal Purposes, outside of the Sinking Fund requirements, State and County Taxes and Metropolitan Assessments based on the net valuation	$1,229,647 00

RAPID TRANSIT.

The desire of the citizens of Cambridge that we should have subways instead of elevated structures in our streets was very emphatically manifested at the election December 12th.

In framing the act to authorize the change from elevated to subways we must recognize the rights which the Boston Elevated Railway Company has at present, and yet we must also realize that it is incumbent upon us, as representatives of the City of Cambridge, to protect the public interest.

I hope to see the work on the Massachusetts Avenue subway started at the earliest possible date.

WATER BOARD.

I believe that we should complete the work on the new pipe line as soon as possible, and I recommend that another section be finished this year.

The pipe in the lower section of the old line will probably be cleaned early in the year and the question to be decided is whether the upper or middle section of the new line should be built first.

As many of us are not as familiar with the conditions, as were members of last year's City Council, I recommend a careful study of the situation. If in the wisdom of the City Council this construction should be undertaken, I recommend immediate action, so that we may be in a position to finish the work before cold weather.

LAW DEPARTMENT.

The amount and the importance of the business entrusted to the Law Department requires the undivided attention and best efforts of a competent lawyer.

I believe that it is a good business proposition for the City of Cambridge to have as City Solicitor an attorney who is wllling to devote his whole time to the business of the City and I believe the salary should be commensurate with the work he is expected to perform.

It is not to be supposed that an attorney with a large private practice, probably amounting to many times the salary of City Solicitor, can afford to sacrifice the greater source of income for the lesser, and I therefore recommend for your careful consideration the advisability of an ordinance which shall require the City Solicitor to give his whole time to the business of the City of Cambridge or at least that he may act only as consulting attorney in private matters.

POLICE DEPARTMENT.

There are in the Police Department several officers, who on account of age or of physical disability, are unable to perform the duties which should be placed upon them. I recommend such officers be retired under the pension act and younger men, able to perform the duties, be appointed in their place.

STREET DEPARTMENT.

The Superintendent of Streets offers several suggestions as to the work to be done this year.

The decision as to which streets should be attended to this year is one which can better be made after we have more carefully investigated the needs of the different locatities, and I recommend an immediate investigation of the question by the members of the City Council.

I recommend building an incinerator at the Raymond Street yard this year and the purchase of a suitable stone ledge as soon as possible.

BRIDGES.

The new Cambridge Bridge will undoubtedly be open for use during the coming year.

I wish to call your attention to some of the questions which will arise in connection with the completion of the new bridge at Brookline Street. It is expected that the bridge will be open for travel the coming summer.

The completion of the River Driveway at this point, and the establishing of another line of street cars which shall give the residents of this section of the City better accommodations are two of the important questions which I hope the City Council will take up at an early date, so there may be no unnecessary delay in enjoying the full benefits of the new bridge when it is completed.

In connection with better street car accommodations, I suggest a careful investigation into the advisability of an extension of the tracks through Putnam Avenue to connect with Massachusetts Avenue tracks at Putnam Square. In this way we could have a line of cars from Harvard Square, through Putnam Avenue and Brookline Street to Brookline, and we could also get to Boston by an entirely new route.

BUILDING DEPARTMENT.

The recommendations in the report of the Superintendent of Public Property should be carefully considered, and at a later day I shall probably send a communication to the City Council in relation to some of the matters he has mentioned.

The schoolhouses are in good condition as far as the sanitary arrangements are concerned and must be kept so, as the health of the community depends to a large extent upon the care we take to prevent the spread of contagious and infectious diseases among the school children.

SCHOOL DEPARTMENT.

This Department I consider is the most important one in every community, — for in the proper development of our children is the future welfare of our country.

Every year there is a fear in the minds of those closely identified with the educational interests of the City that we shall elect a City Government, which may not be in sympathy with the School Committee, and I am convinced that the best interests of the City will be secured by changes in the charter which will make the School Committee independent of the City Council, and which at the same time will limit the amount of money to be expended in the School Department.

With this object in view I recommend to your careful consideration the advisability of asking legislative authority for changes in the charter by which the amount which may be expended for school purposes, each year, shall be a specified percentage of the assessed valuation of the City; and the Mayor be given veto power over the School Committee, with the provision that a three-quarters vote of that body may pass any order over his veto.

As an illustration of the way the plan of allowing the School Department a specified percentage of the assessed valuation would work, let us assume that it would be found to be advisable to give

the schools one-half of one percent. The amount this year would have been about $520,000, that is one-half of one percent. of $104,000,000. The amount which could be expended on the schools would thus increase as the City increased in valuation. The percentage should be fixed at a figure which should include every expenditure for school purposes now included in school appropriations, the care and repair of buildings, fuel, janitor service, interest and sinking fund charges on bonds issued for schoolhouses, and, in fact, everything which is chargeable to the School Department.

By this method the amount to be expended by the School Committee would be determined by the assessed valuation of the City. At the present time there is practically no check upon the School Committee. This, I believe, is wrong. The plan I have just outlined of limiting the amount of money to be used for school purposes I believe will be beneficial not only to the schools, but to the taxpayers as well.

CITY HOSPITAL.

I believe that the time has arrived when the City should maintain and support a City Hospital with wards for general medical and surgical cases; contagious and infectious diseases; emergency cases, and a maternity hospital.

The institution should be located in a place which can be easily reached from all parts of the City.

I recommend the appointment of a committee of three from each branch of the City Council to act with a committee of physicians whom I shall invite to investigate and report on the advisability of immediate action in the matter.

IN GENERAL.

There are several Department reports that I have not as yet seen, and I shall send communications to the City Council in relation to matters of importance as I become more familiar with the needs of the different branches of the service.

I favor the Saturday half-holiday the year round for laborers in all Departments, and trust that the City Council will take action on this question at once.

I am convinced that a great deal of good to the people would result from a more extended use of the beautiful halls in our public schools, and hope to see started this year a series of entertainments along educational lines to be given in the school halls.

We have opportunities in certain sections of the City to establish play grounds at comparatively small cost, and I call your attention to the need of these play grounds especially in the more thickly settled neighborhoods.

Gentlemen of the City Council:—

The charter defines the respective duties of the executive and the legislative branches of the City Government, and for my part I assure you that I shall not interfere with the duties that have been placed in your hands.

Let us take up our work with a determination to give the City the best there is in us,—uninfluenced by selfish motives or by attempts to do that which we would not sanction in the conduct of our private affairs. With this determination in mind, I am sure we can give the City an administration, the responsibility of which we shall be proud to claim in future years.

ANNUAL REPORTS

REPORT OF THE CAMBRIDGE WATER BOARD

December 19, 1905.

To the Honorable, the City Council of the City of Cambridge: —

The forty-first annual report of the Cambridge Water Board, for the year ending November 30, 1905, is submitted for your consideration.

The different reservoirs, and other works under the charge of the Board, are in better condition than they were one year ago, inasmuch as a section of the new pipe line has been successfully constructed, and good progress has been made in the improvement of Kingsley Park. Much, however, remains to be done, if needed improvements are to be carried out.

The water supplied to the water takers is still of good quality, and compares favorably with the average surface waters supplied to other municipalities of the Commonwealth.

We regret to report that the pending suit of John C. Gray and others against the City of Cambridge has been decided by the Supreme Judicial Court in favor of the plaintiffs. This was a bill praying for an injunction against the continued use by the City of a portion of its distribution pipes which originally supplied water to the old reservoir on Highland Street, and extend across private land now owned or controlled by the plaintiffs. These pipes were laid under grants in deeds from the former proprietors of the soil, made many years ago, the earliest dated May 5, 1856, and in these deeds the exact interest thereby conveyed in the land in question was left a matter of some doubt, but it was therein stated in substance that the purpose of the grant was to conduct water from Fresh Pond to the Reservoir, and the contention of the plaintiffs was that the Reservoir having been removed and the site sold, the rights conveyed by the deeds expired or reverted to the owners of the soil, although for more than twenty years water had not only been conducted to the Reservoir, but distributed through the same pipes to different parts of the City. This contention was finally sustained by the full bench of the Supreme

Judicial Court, and consequently the City will be obliged to discontinue the use of the pipes. This will involve the laying of new pipes in Huron Avenue and Reservoir Street at an expense of about $12,000.

TUNNELS UNDER BROAD CANAL AT FIRST, THIRD AND SIXTH STREETS.

The pipes under Broad Canal at First, Third and Sixth Streets are now smaller than is desirable and have been broken several times by vessels passing over them, and by dredgers.

By the terms of the Charles River Dam Act, these pipes are to be lowered by the Charles River Dam Commission. In view of the injury by electrolysis to submerged water pipes, and owing to the desirability of getting at the pipes at any time for repairs, and as a matter of safety, it would seem very desirable that these pipes should be enclosed in tunnels under the canal. This is the recent practice in nearly, if not all, the cities.

The Gas Company is anxious to co-operate with the Water Department in the construction and use of these tunnels, and we would recommend that early action be taken in this matter.

The total cost of these tunnels at the three points has been estimated at about $17,000; part of this, nearly $5,000, would be borne by the Charles River Dam Commission, and nearly if not quite an equal amount by the Gas Company, leaving probably less than $7,000 to be borne by the City.

FINANCIAL STATEMENT IN BRIEF.

The total cost of the Water Works to November 30, 1904, was . .		$5,772,507 13
There was expended during the year on Construction Account .		251,232 57
So that the total cost to November 30, 1905, was		$6,023,739 70
The Construction Account for the year 1904, was .	$21,851 98	
An increase of	229,380 59	
	$251,232 57	

This increase is, of course, mainly due to the construction of a section of the new pipe line.

WATER BOND ACCOUNT.

The whole number of bonds outstanding is	$3,646,600 00
Deducting from this sum the present value of the Water Debt Sinking Fund, exclusive of the note of the City for $200,000 .	1,382,828 84
Leaves as the net Water Debt	$2,263,771 16

For further details of the financial condition of the Department, the City Council is referred to the statement of the Registrar appended to this report. From that statement it appears that the excess of expenditures over receipts during the past year is the sum of $6,476.93. This deficit was caused by the purchase of water from the Metropolitan Water and Sewerage Board, on two different occasions, at a cost of $28,458.50, this sum being charged to Water Works Maintenance Account, and met, except to the extent of this deficit which had to be carried over, by the proceeds of water rates. It is hoped that the deficit will be made up during the coming year. At all events, there can be no more deficit arising from a similar cause, as no more water can be purchased from the Metropolitan Board without a special act of the Legislature.

WATER BASINS.

In Hobbs Brook Reservoir the water is about two feet below the dam, and at Stony Brook about six inches below; that is, they are both nearly full, and this, in view of the dryness of the season, is a subject of congratulation. Fresh Pond stands now at grade 12.90 feet, which is a gain of nearly one foot in height since the water was let on through the new pipe. When the Pond is full, it stands at grade 16.85 feet above the City base (which is twenty feet below the coping of the Dry Dock at Charlestown Navy Yard). It is expected that the Pond will be filled on or before May 1st, next.

NEW PIPE LINE.

In April last the City Council made an appropriation of $250,000, for the purpose of constructing a section of the new pipe line, to connect with the old thirty-inch iron pipe at Irving Street, Watertown, and from thence to conduct the water delivered from the thirty-inch pipe through a new conduit sixty-three inches in diameter to Fresh Pond. The iron pipe which conducted the water from Stony Brook Reservoir to Fresh Pond is about eight miles in length, is thirty-six inches in diameter from Stony Brook Reservoir for a distance of one mile, and then for the remaining seven miles is thirty inches in diameter. This pipe was laid in 1887 and has therefore been in service about eighteen years. It is now partially covered with tubercles on the inside, and the flow of water is very much retarded by the resulting friction. Moreover, there are several summits in the pipe which are above the hydraulic mean gradient line,

and these summits are between Irving Street and Fresh Pond, and as is well known, materially reduce the capacity of the pipe. The new pipe line from Irving Street to Fresh Pond eliminates for that distance all these sources of trouble. It is entirely constructed of concrete sixty-three inches in interior diameter, except for a short distance where the grade of the land required a different construction, and where iron pipe was used forty-two inches in diameter, and the grade is such that there is a continuous fall from Irving Street to Fresh Pond. Unless obstructed, the pipe can never be filled, and there being therefore no strain upon it, it was not necessary to fortify it with steel rods, except for a short distance where it runs under the Fitchburg Railroad track. The concrete is in the judgment of the engineers not only cheaper than iron, but much better. It cannot rust or become tuberculated, is free from electrolytic action and, may last for centuries. This use of concrete was adopted upon the unanimous recommendation of the consulting engineers employed by the Board. The work was done under the direction of Mr. Freeman C. Coffin, as Engineer-in-Chief, and Mr. Charles G. Craib as Superintendent of Construction, and the result was in every way satisfactory.

The work was begun about May 8th last and the section was finished and water was turned on, at the connection with the old main pipe at Irving Street, October 30, 1905. About six hundred laborers were employed upon the work, almost all citizens of Cambridge, the few exceptions being men required for special work and of special qualifications, such as could not be obtained in Cambridge.

The cost of the conduit to December 1, 1905, was $226.337.47. From a point opposite Irving Street on Arsenal Street, the conduit was constructed in Arsenal Street to a point about opposite the Arsenal gates, and from thence across private land, following in the main, the general direction of the Fitchburg Railroad, and in many places very near it, to Fresh Pond. Under an authority of an act of the Legislature, the Board took by eminent domain for the purpose of the construction of the pipe, a strip of land twenty feet wide extending from Arsenal Street nearly to Fresh Pond. This taking resulted in causing damage to many different owners of the land, of whose claims some have been adjusted, but there are others remaining unsettled and the sum above named will be increased to some extent by the awards of damages that may be made by a jury or

by the sums agreed upon between the City and the owners. The Board, with the aid of the City Solicitor, are now endeavoring to make reasonable and proper settlements with the different owners, and it is believed that little or no actual litigation will result from the various takings.

The length of the new section is a little over two miles. Shortly after the water was let on, readings were taken from a Venturi meter placed above the point of junction of the new and the old pipe, which showed that the new pipe was delivering over nine million gallons per day, as compared with a delivery of about six millions through the old pipe. Consequently the conduit has proved an entire success, and with the aid of the yield of the Pond itself will give a supply of at least ten million gallons per day, and probably more; which will suffice to meet the daily average consumption, now about nine million gallons, for some time, possibly for several years. It may be the part of wisdom, however, in view of the yearly increase in consumption of water, which is shown in the tables to be found in the Superintendent's report, hereto annexed, to proceed this year to construct another section of the pipe, so that adequate provision may be made for the future. The next section to be built would be either a pipe line extending from Hobbs Brook Reservoir to Newton Street in Waltham, and there connecting with the original thirty-inch pipe line, or a line extending from Irving Street, Watertown to Newton Street, Waltham, and there connecting with the thirty-inch pipe. There are several arguments in favor of the first alternative. In the first place, this line would add an additional head of 100 feet, the difference in height between the surface of Stony Brook Reservoir and that of Hobbs Brook Reservoir, and therefore yield a large quantity of water. In the second place the water of Hobbs Brook Reservoir is much purer and softer than that of Stony Brook Reservoir, and is nearly as colorless as spring water, and by supplying Fresh Pond with this water alone, the quality of the water in Fresh Pond would be greatly improved, although, as Hobbs Brook Reservoir unfortunately only holds about six months' supply, it would be necessary to use Stony Brook water for a part of the year in any event. In the third place, if for any reason the water of Stony Brook should become contaminated by typhoid germs or otherwise, which is not, it is true, very probable, in view of the precautions constantly being taken by the Board, the water takers could for several months be

supplied with pure water from Hobbs Brook alone. For these reasons it might be wise for the City Council to authorize the building of this section next.

Much, however, (and perhaps more) is to be said in favor of extending the present concrete conduit of the same diameter, sixty-three inches, from Irving Street in Watertown to Newton Street in Waltham. This extension would much more largely increase the supply of water at less expense, although it would give no opportunity to separate the waters of the two reservoirs. It would be of cheaper construction than the section from Hobbs Brook, being entirely of concrete, it would be laid wholly or almost wholly in public streets, and hence there would be little or no damages; and there would be little or no rock excavation; whereas the line from Hobbs Brook must be made principally of cast-iron, there will be a large amount of rock to excavate and blast, and the line must go for the most part of its course across private land, involving large damages. Whichever of these two sections may be constructed first, the Board are of opinion that one of them should be built during the ensuing year. While, as above stated, it is *possible* that the section already built may supply the City for several years, it must be borne in mind that possibilities are not what the City needs, but certainties. Considering the rapid increase in consumption of water, and the constant growth in population, the Board are satisfied that the present margin of safety is altogether too small and that it would be dangerous to depend upon the supply furnished by the section of the pipe already built without further extensions.

CLEANING THE OLD PIPE LINE.

The Board are advised by the expert engineers, that it is probable that the tubercles, on the inside of the old pipe line can be removed at moderate cost, probably not exceeding $10,000 by cutting into the pipe at different points and introducing a mechanical device heretofore successfully used in the cleaning of smaller pipes, which device is forced through the pipe by the pressure of the water, scraping off the tubercles as it passes. The Board have not been able to attempt this work heretofore, for the reason that they have not had enough water in Fresh Pond to make it safe to dispense with the use of the pipe for a sufficient length of time. Now, however, that it is anticipated that Fresh

Pond will be entirely full on or before May 1st, next, the Board advise that an attempt to clean the pipe be made as soon as the Pond shall be full, as the storage in the Pond will then be sufficient to supply the City during the cleansing of the pipe, which it is estimated will take about a month, possibly a little longer. There would be less than six miles of pipe to clean, as it would not be expedient to clean that portion of the pipe between Irving Street and Fresh Pond which is at present disused. In making up the appropriations for the year, the Board will ask for a sum to be appropriated for this purpose. If the operation shall prove a success the flow of water will be largely increased, but the amount of the increase cannot easily be predicted. The result of the cleansing process may be known, however, before it is necessary to begin upon the actual construction of another section, provided there is water enough in Fresh Pond to begin the cleansing process sufficiently early in the Spring, and the result will have an important bearing upon the question of the immediate construction of another section of the new conduit. All necessary surveys and other preparations should be made, however, so that the work of construction of the new section could be begun in May, if then deemed necessary, or proper, as it probably will be.

FRESH POND PARK.

The Board have continued the improvement of Kingsley Park, grading new surfaces and preparing them for planting in the Spring. They have expended on the work the sum of $4,285.50 and will request an appropriation for the completion of the work. The Park and driveways around the Pond are the constant resort of citizens and visitors in need of fresh air and recreation, and it seems to the Board that a reasonable amount of money expended in making the borders of the Pond more beautiful and attractive is well spent, especially, if as usual, it can be charged to maintenance account and paid out of surplus receipts.

STONY BROOK OVERFLOW.

The overflow of Stony Brook for the year ending November 30, 1905, was . . .	3,148,900,000	gallons
For the year ending November 30, 1904, it was	5,726,399,000	"
Decrease	2,577,499,000	gallons

This decrease is readily accounted for by the unusual dryness of the season, the year 1905 being the dryest for over ten years. Unfortunately it is impossible to save any of this overflow, except so far as can be done by filling Fresh Pond to the brim when the water is overflowing the dam, and that can be done only by increasing the size of the pipe which leads to Stony Brook Dam. Some of it could be saved by constructing a new reservoir near the sources of the Brook, but it is believed that no new reservoir will be required for many years to come.

The annual rain-fall for the past ten years at Fresh Pond is as follows : —

Year.	Inches.
1896	38.82
1897	42.53
1898	52.42
1899	37.28
1900	46.89
1901	46.20
1902	43.31
1903	44 23
1904	42.89
1905	32.68
Average	42.72

The rain-fall for the year at Hobbs Brook Reservoir was 37.96 inches ; at Stony Brook, 38.40 inches.

The rainfall at Hobbs Brook in 1904 was 39.95 inches, showing a loss this year of 1.99 inches. The rain-fall at Stony Brook in 1904 was 41.18 inches, showing a loss of 2.78 inches.

CONSUMPTION OF WATER.

The total consumption of water for the year ending December 1, 1905, was	3,294,159,640 gallons
For the year ending December 1, 1904	3,210,982,145 "
Excess of consumption this year	83,177,495 gallons
The excess of consumption for the year ending December 1, 1904, over the year ending December 1, 1903, was	50,277,600 gallons
In 1895 the total consumption was	2,190,781,892 "
The consumption of the year 1905 being	3,294,159,640 "
and that of 1895	2,190,781,892 "
In ten years the consumption has increased or about one-half.	1,103,377,748 gallons

The excess of consumption this year is undoubtedly due in great part to the unusual amount of water used for manufacturing purposes, watering lawns, and for street watering, the last two causes due to the unusual dryness of the year.

METERS.

The Board have caused to be set this year 346 meters, all upon application of water-takers who prefer to pay for their water by meter, rather than to pay schedule rates. There are now in use 2,886 meters. The number of water supplies is 14,933, so that the proportion of metered supplies is only a little over one-fifth.

There is no doubt that a complete meter-system would result in a great saving of water, and in the prolongation of the life of the water supply. The Board have frequently advocated the general use of meters, as may be seen by reference to their previous annual reports, but hitherto the City Council has not seen fit to make the necessary appropriations.

Mr. Coffin in his report, annexed to the report of the Water Board for 1903, page 78, estimated the total saving which would be affected by the general use of meters from the year 1905 to 1924, at the sum of $431,822.

Whatever may be the individual views of the members of the City Council, it would seem that all might concur in this; that the subject is at least worthy of thorough investigation and careful consideration.

The Board desire, in conclusion, to express their appreciation of the thorough and efficient manner in which the work of the construction of the new pipe line has been performed by the Chief Engineer, Mr. Freeman C. Coffin, and his efficient Superintendent, Mr. Craib. The work has not been delayed, but promptly finished in ample season and it has been done well. They also wish to acknowledge the valuable services of the City Engineer, Mr. Hastings, who, with his assistants, had charge of the field work.

Attention is especially directed to the report of Mr. Coffin, annexed to this report, where many details will be found which cannot be included in this report. Mr. Coffin has been employed by the Board for two years,

and has made careful investigation and study of the Cambridge Water Works, and of the proper methods to develop their resources economically and to the best advantage.

Respectfully submitted,

WILLIAM B. DURANT,
GEORGE H. HOWARD,
JOHN F. O'BRIEN,
ANDREW J. RADY,
EDMUND H. STEVENS,
Cambridge Water Board.

FINAL REPORT OF FREEMAN C. COFFIN UPON THE CONSTRUCTION OF THE SIXTY-THREE-INCH CEMENT CONDUIT, FROM IRVING STREET, IN WATERTOWN, TO FRESH POND, IN CAMBRIDGE

Boston, December 19, 1905.

To the Water Board of the City of Cambridge: —

Gentlemen: —I submit the following final report upon the construction of the conduit from Irving Street, in Watertown, to Fresh Pond, in Cambridge.

The total length of this conduit from the point where it begins in Arsenal Street near Irving Street, in Watertown to the inlet to Fresh Pond is about 12,125 feet. About 11,500 feet are of concrete, five feet three inches in diameter inside; 475 feet are of forty-two-inch cast-iron pipe; thirty-four feet are taken up by the inlet chamber and well, and there are 117 feet of thirty-inch cast-iron pipe making the inlet to Fresh Pond.

The concrete section has a fall of three inches in 1,000 feet, except at one point, where there is a fall of two feet in ninety feet. The capacity of the concrete section was estimated at thirty million gallons in twenty-four hours. Actual measurements taken of the velocity of the water after completion indicate that its actual capacity, when running full, will be thirty-five millions or more.

The thirty and forty-two-inch cast-iron pipe sections have been given such a fall that their respective capacities are greater than that of the concrete section. The forty-two-inch pipe has a fall of two feet in its length of 475 feet. The thirty-inch pipe is so arranged that the water will rise in the well until there is a sufficient head over the surface of the water in Fresh Pond to discharge all of the water that comes to it. Thirty-five millions will require about three feet head, or the raising of the water in the well about three feet above the surface of the water in the Pond.

The conduit will no doubt become somewhat coated with vegetable matter from the water, which will reduce its carrying capacity somewhat.

It can, however, be easily cleaned and its original capacity restored. Drawings showing the plan and profile of the conduit and the details of its construction accompany this report.

Work was begun on the excavation of this conduit May 8, 1905, on Section No. 3 in private land belonging to the estate of Tyler Bigelow near Arsenal Street. The first concrete was laid in the conduit near the brook in the aforesaid land on May 16, 1905. The first piece of the conduit laid, twenty feet in length, was of the following dimensions: five feet and three inches inside diameter, six inches in thickness on the bottom, fifteen inches on the sides at the springing line of the arch and seven inches on top.

After this piece was laid, the forms were changed to make the sides thirteen inches thick instead of fifteen inches cross section. Since then no change has been made in the dimensions of the conduit and, with the exception of the first twenty feet, and a few places where there are special sections, it is as shown on the accompanying drawings throughout its length. The special sections are also shown on the drawings.

Owing to a mistake in setting grades, the conduit near the "Creamery" on Wheeler Court for about ninety feet in length was not laid to the true grade, being about four inches too high at the highest point. The bottom was cut out and repaved at the correct grade. The entire bottom of the conduit now corresponds with the true grade as shown upon the accompanying profile.

These, I believe, were the only changes in design or mistakes in construction made throughout the entire work.

The work was divided into six sections, upon which work was commenced in the following order: Section No. 3, Section No. 2, Section No. 4, Section No. 1, Section No. 5 and Section No. 6. This division is shown on the drawings.

There were four points on the line at which it seemed that the work could be done more economically in tunnel than in an open cut, one in Section No. 3, one in Section No. 4, one in Section No. 5 and one in Section No. 6. The total length of the work in tunnels was about 1,400 feet. Rock excavation was met with in a part of the tunnel in Section No. 5 under Mount Auburn Street This was the only rock work encountered in the entire excavation.

In the tunnel in Section No. 3, about opposite the Hood Rubber Works, the upper half of the conduit was constructed of brick masonry. All of the remainder of the conduit was entirely of concrete.

The concrete was formed by means of steel forms or centers. It was composed of one part Portland cement, two and one-half parts of sand and five parts of screened gravel. The brand of cement used was the Helderberg, which proved very satisfactory. Tensile tests were made of samples from each carload with the following result: —

Neat test,	24	hrs.,	av. of	410	briquettes,	272	lbs.	tensile	strength.
" "	7	dys.,	" "	630	"	682	"	"	"
" "	28	"	" "	630	"	807	"	"	"
1 to 3 "	7	"	" "	630	"	270	"	"	"
" " "	28	"	" "	630	"	372	"	"	"
	3	mos.,	" "	10	"	486	"	"	"
	6	"	" "	5	"	534	"	"	"

These tests were made by Mr. Nelson A. Hallett of No. 1 Ashburton Place, Boston.

The following are the quantities in this work: —

47,914	cubic	yards	excavation, average depth 14.25 feet.
3,320	"	"	tunnels.
300	"	"	at inlet chamber.
1,500	"	"	embankment.
8,650	"	"	concrete.
45	"	"	brick work in tunnels.
35	"	"	" in house over inlet chamber.
490	feet	42-inch	cast-iron pipe.
117	"	30-inch	" "
6	"	63-inch	steel pipe at culvert.
17	manholes and covers.		

The total amount of cement used on the work was 11,613 barrels This cement came in bags which were charged at the rate of 40 cents per barrel, or ten cents each, amounting in all to $4,645.20. Credit was received for bags returned to the amount of $4,530.02, or a loss on bags of $115.18 due to lost and damaged bags. This amounts to practically one cent per barrel for the use of the bags. If wooden barrels had been used, the net cost would have been thirty cents per barrel. Very little cement was lost, certainly not equal to ten barrels, perhaps no more than would have been lost in barrels. From $3,300 to $3,400 was saved by buying the cement in cotton rather than in wood. Out of the total

cement used it is estimated that from 75 to 100 barrels were used for laying brick, brushing and finishing surfaces, which leaves about 1.3 barrels per cubic yard as the average amount of cement used in the concrete, which, as before stated, was mixed in the proportion of one, two and one-half, and five.

The cost of the concrete in place as nearly as it can be estimated was as follows: —

.90	cubic yards gravel, at $1 42	$1 28
.45	" " sand, " 1 00	45
1.3	barrel cement, " 1 35	1 76
	Cost of forms, $4,233÷8,650 yards	49
	Labor, including setting and cleaning forms	3 25
	Cost per yard of concrete in place	$7 23

The above cost does not include the cost of lumber, which was very small, the use of tools, general superintendence, inspection or engineering. On the other hand, it was based upon the cost of sand and gravel when bought from outside parties. Some of the sand and gravel used was taken from the trench and cost less than the above figure per yard for labor in screening and hauling.

The total amount paid out for sand and gravel was $11,730, or about $1.35 per yard, for all of the concrete laid instead of $1.73, as given in the above estimate, which would indicate that, at the prices paid, the sand and gravel for 1,865 yards of concrete was found on the ground, or an amount which would have cost $3,234 if bought from outside. How much it actually cost we do not know, except that it did not cost as much in any case as it would to buy it.

It should also be stated that the forms, which are of steel, are still on hand and available for further use, and will no doubt be capable of doing as much more work as they have already done, so that in case the conduit is extended the further use of the forms would materially decrease the cost of this item in the concrete.

COST OF SOME OF THE ITEMS THAT ENTER INTO THE WORK.

Lumber	$10,798 91
Cement	15,648 74
Sand and gravel delivered on ground	11,729 58

Steel work, including forms for concrete, bolts, plates, chutes, etc.		$4,232 59
Cast-iron pipe and special castings		5,027 16
Tools and machinery		5,232 93
Rent of machinery		4,147 50
Teaming		9,808 08
Labor on concrete	$28,112 00	
Labor on all other work	84,778 04	
Watchmen	3,688 00	
Clerk, timekeepers, messengers, stockroom man, etc.	1,961 25	
Foremen	9,634 00	
Inspectors (not including Watertown inspector)	2,620 00	
General superintendence, including horse hire	2,764 00	
Total labor on pay-roll, less division engineers		130,793 29*
Engineering		7,120 00
Paid B. & M. R. R., sidings, expense of crossing, etc.		1,313 68
Paid Town of Watertown for building sewers, rolling streets, furnishing water, etc.		3,728 15

* This was up to and including November 30th. A little work on brick house over inlet chamber has been done since then.

TABLE GIVING COST OF DIFFERENT ITEMS PER CUBIC YARD, PER LINEAL FOOT, AND AS AN APPROXIMATE PERCENTAGE OF THE TOTAL COST OF THE WORK.

Item.	Cost of Item.	Cost per Cubic Yard.		Cost per Lineal Foot.	Approximate Percentage of Total Cost.
		Concrete. 8,650	Excavation. 51,000		
Lumber in open trench	$6,100	.....	$0.13	$0.57	.....
Lumber in tunnel	4,400	.....	1.34	3.14	5.
Lumber for concrete	300	.035	....	.025	.....
Total cement	15,649	.....	.....	1.39	7.1
Coal for engines	528	.....	.0133	.044	.24
Tools and machinery	5,233	.....	.1025	.42	2.4
Rent of machinery	4,147	.....	.082	.34	1.9
Steel work and forms	4,233	.49	.....	.35	1.9
Teaming	9,808	.....	.192	.81	4.5
Labor on concrete	28,112	3.25	....	2.32	12.8
Labor on other work	84,778	.....	1.66	7.02	37.
Watchmen	3,688	.142	.048	.302	1.7
Clerks and timekeepers	1,961	.076	.026	.16	0.9
Foremen	9,634	.....	.19	.80	4.4
Inspectors	2,620	.30	.....	.21	1.2
General superintendence	2,764	.105	.036	.23	1.3
Engineering	7,120	.275	.093	.59	3.25

NOTE. The foregoing table does not cover all of the expenses incurred on the works, but such items as were readily capable of separation and analysis. The unit costs and percentages are not exact, but close approximations to the exact figures. The division of lumber cost is an approximate estimate, but the total lumber cost is correct.

The work was completed ready for the water October 30, 1905, and the water was turned on for a test on that day. It was allowed to run

about sixty hours, when it was shut off and a careful inspection made of the inside of the conduit. It was found to be in perfect condition throughout its length. Water was finally and officially turned on at 2.15 P.M., November 2, 1905.

The following are the names of those comprising the organization of this work and who are responsible for its execution and success.

All of the field work of laying out the line and giving grades for the conduit was done under the direction of Mr. L. M. Hastings, the City Engineer, and by engineers from his office; Mr. Charles G. Craib, General Superintendent; Mr. A. E. Lyford and Mr. Seth Peterson, Division Engineers; Mr. James Grant, Mr. William Lindsay, Mr. William J. O. Brien, Mr. Charles Parker, Mr. Michael Rady, Mr. Henry A. Simonds and Mr. Joseph A. Wood, Foremen of Sections; Mr. John Craib, Foreman of Tunnel Work; Mr. E. W. Ellis, Mr. W. S. French, Mr. E. Grenier, Mr. Harry Joel, Mr. L. E. Kollock and Mr. F. Nesdell, Inspectors; Mr. E. J. Carroll, Inspector of Stock; Mr. J. O. Connell, Clerk and Inspector of Stock; Mr. Walter S. Hall, Timekeeper; Mr. Joseph A. Genest, Assistant Timekeeper.

PRESENT CAPACITY OF THE LINE FROM STONY BROOK DAM.

This section of the conduit was built (as part of a plan adopted by the Water Board for a line that would have a capacity to carry thirty million gallons per day from Stony Brook and Hobbs Brook Basin to Fresh Pond) to increase the flow through the present line from Stony Brook Dam by avoiding the summits on the lower end of that line and thus make available a greater head on a shorter line. The effective head on the old line was about thirty-four feet in 5,100 feet of thirty-six-inch pipe and 34,340 feet of thirty-inch pipe.

This was found by measurement to give a discharge of 5,750,000 gallons per day into Fresh Pond. By shutting gates and expelling the air from the summits this could be increased to over 6,000,000 gallons per day. This was explained in my report of December 1st, 1903. Since then the gate has been shut twice each day instead of once a day before. Either this or some other cause has increased the flow slightly, and it has averaged for the past year about six and one-half million gallons.

The following table shows the flow as measured by the Venturi meter, and read about once a month for the past two years : —

FLOW OF WATER THROUGH C. I. PIPE FROM STONY BROOK TO FRESH POND.

Date.	Flow Through Cast Iron Pipe.	Date.	Flow Through Cast Iron Pipe.
September 9, 1903..	6,235,400	January 19, 1905..	6,565,400
September 11, 1903..	6,052,700	February 15, 1905..	6,668,400
November 9, 1903..	6,241,000	March 11, 1905..	6,484,700
November 23, 1903..	6,071,700	March 17, 1905..	6,587,600
May 12, 1904..	6,419,000	March 21, 1905..	6,741,400
June 16, 1904..	6,440,000	April 27, 1905..	6,469,800
July 14, 1904..	6,467,500	May 19, 1905..	6,409,400
August 12, 1904..	6,357,400	June 20, 1905..	6,393,500
September 23, 1904..	6,455,800	July 25, 1905..	6,404,700
October 13, 1904..	6,470,000	August 22, 1905..	6,453,600
November 16, 1904..	6,536,300	October 11, 1905..	6,184,300
December 8, 1904.	6,490,600	October 28, 1905..	6,203,800
December 14, 1904..	6,562,200		

The building of the new conduit from Fresh Pond to Irving Street, a distance of 12,125 feet, results in securing an effective head of 46 feet in 5,100 feet of thirty-six-inch and 22,740 feet of thirty-inch pipe. It was estimated in advance of the building of this conduit that it would increase the flow to 9,000,000 gallons per day. When the water was turned on November 2nd, the flow was 9,000,000 gallons. On December 5th it was 9,100,000 gallons. It may be that the increased velocity has scoured the sides somewhat and has slightly increased the flow.

To this flow of water through the pipe line should be added the yield of Fresh Pond and its watershed to find the total available supply. The natural yield of this Pond in a year of average rainfall is about 2,000,000 gallons per day. In the driest period, of which we have the record of yield, about 1,650,000 gallons per day would have been furnished by drawing the Pond as low as it was drawn last year. If the surface flow on this watershed is taken off by sewers to a certain extent, the yield would be diminished by this amount. It is probable that there is now available from 10,000,000 to 11,000,000 gallons per day. The average consumption of 1905 was 9,000,000 gallons per day.

For 33 days after the water was let into the new conduit the consumption was 8,118,882 gallons per day, or a total of 267,923,106 gallons. During the same time the water in the Pond rose 11 1-4 inches, a gain of about 48.5 millions, or a total yield of 316.4 million gallons. The pipe line was delivering about 9.05 millions per day on the average, or a total

in the 33 days of 298.6 millions, leaving 17.8 millions or about 540,000 gallons per day as the yield of the watershed. This was during a very dry time. It is evident that with a rise in the Pond of 10 inches in a month like November of this year it is sure to be filled (about 4 feet more) on or before May 1, 1906, even with the probable increased consumption of the colder months.

As the new conduit has a carrying capacity of from 30 to 35 million gallons per day when running full, it is evident that the available capacity of the line is controlled by the capacity of the iron pipe line from the end of the conduit to Stony Brook Dam. This capacity is now, as already stated and as measured by the meter, 9 or 9.1 million gallons per day. With this amount of water the flow in the new conduit is 1.75 feet in depth above the invert, that is, the channel is filled to about 29 per cent. of its area.

I believe that the capacity of the cast-iron pipe line can be increased by cleaning it or scraping the tubercles from its inner surface. There is no doubt that the flow will be increased by such cleaning. There is little or no data upon which to make an estimate of the probable increase. The present flow is 9.1 million gallons. The flow after cleaning can hardly exceed 12 million gallons, and may, of course, be much less. I believe it to be very desirable to clean the pipe and secure all of the increase possible unless a further section of the proposed conduit is to be laid within a year or two. It would then be unnecessary to clean the present pipe.

The plan adopted by the Water Board included the building of four sections as required, and in the following order: —

Section No. 1. From Hobbs Brook Dam to connect with the present cast-iron pipe at Newton Street, in Waltham. This section, it was estimated, would increase the flow to 9,750,000 gallons daily.

Section No. 2. From Irving Street to Fresh Pond. This section, if built in this order, would increase the flow to 11,750,000 gallons per day.

Section No. 3. From Newton Street to Irving Street. This section, if built in this order, would increase the available capacity to 17,000,000 gallons daily.

Section No. 4. From Newton Street parallel with present pipe to

the junction of the thirty-inch and thirty-six-inch pipes. This section would increase the capacity to 30,000,000 gallons per day.

It was finally decided (wisely, as I believe) to construct Section No. 2 first. This has been done with the result given above. When the time shall arrive for continuing this work, it will be necessary to determine which section shall be built next, whether No. 1 or No. 3 of the plan adopted. It seems proper at this time to make a statement of the results to be expected from either course.

If Section No. 1 is built next, the capacity will be increased from 9,000,000 to 11,750,000. This section will provide for taking a part of the water from Hobbs Brook Basin directly, or without passing through Stony Brook Basin. The disadvantage of this arrangement, if it is a disadvantage, is that it it requires careful observation of the water in the two basins, and a change of use from one to the other at proper times in order to secure the maximum capacity of the line. The advantage of the plan is that, if for any reason it should be desirable to discontinue the use of water from either Hobbs Brook or Stony Brook Basin for a time, it could be done for as long as there was water in the other.

This would be desirable in the case of an epidemic of water borne disease upon one of the watersheds which did not occur at the same time upon the other. This may, of course, be a state of things that will never occur.

If Section No. 3 is built next, it will increase the capacity of the line to 14 million gallons. The advantage of this plan is in its greater capacity, giving a flow of 14 million gallons instead of 11.75 millions, and the simplicity of operation. With the yield of Fresh Pond, the total available supply will be over 15 million gallons per day, or nearly, if not quite, as much as the watersheds can be developed to supply.

In none of the foregoing figures has the effect of cleaning the present pipe been included. This, if done, would increase each one over the figures given about two million gallons per day.

Careful surveys and borings have not been made of the line of Section No. 3, and, therefore, no reliable estimates of cost. It is probably safe to say that its cost will be rather less than that of Section No. 1.

Respectfully submitted,

FREEMAN C. COFFIN.

REPORT OF THE WATER REGISTRAR

WATER REGISTRAR'S OFFICE,
CAMBRIDGE, December 1, 1905.

To the Cambridge Water Board: —

GENTLEMEN: — In compliance with the requirements of the City Ordinance I present the forty-first annual report of the operations of this Department showing the receipts, expenditures and abatements, together with a statement of the number of water takers, etc., for the year ending November 30, 1905.

Amount of bills remaining unpaid November 30, 1904: —

Water rates	$5,410 37
Supplies and repairs	778 18
Off and on	150 00
Seals	8 50
Maintenance account	602 62
Construction account	156 26

Amount of bills placed in hands of City Treasurer for collection from November 30, 1904, to November 30, 1905: —

Water rates	$351,399 53	
Supplies and repairs	4,024 61	
Off and on	529 00	
Rents	168 00	
Seals	88 75	
Maintenance account	2,916 16	
Construction account	1,271 99	
Total bills		$367,503 97

There has been collected: —

Water rates	$345,795 07
Supplies and repairs	3,585 81
Off and on	499 00
Rents	160 00
Seals	91 25
Maintenance account	1,081 44
Construction account	800 29

There has been abated : —

Water rates, off and on, and seals, supplies and repairs, and Construction account	$2,885 33	

There remains uncollected : —

Water rates	8,148 39	
Supplies and repairs	1,210 34	
Off and on	168 00	
Seals	5 75	
Maintenance account	2,437 34	
Construction account	627 96	
Rent	8 00	
		$367,503 97

EXPENDITURES.

Construction account	$251,232 57	
Maintenance account	103,043 80	
		$354,276 37

ABATEMENTS.

Water rate, and supply and repair bills to the amount of	$2,885 33

REFUNDS.

Water rates to the amount of	$1,879 07	
Which amount deducted from receipts	345,795 07	
Leaves net receipts for water	$343,916 00	
Add off and on, fines, rents, seals and Maintenance account	1,831 69	
Makes net receipts of rates, fines, etc.		$345,747 69

OFF AND ON.

Water has been shut off for non-payment of rates, or per order on account of vacancy, and seals have been applied to fixtures by request of owners, as follows : —

Water shut off in 1905	581
Supplies let on, shut off in 1905	400
Supplies let on, shut off in previous years	110
New supplies let on	111
Seal locks applied to fixtures in 1905	501
Seal locks removed, put on in 1905	247
Seal locks removed, put on in previous years	354

Statement of yearly revenue received from water rates since the purchase of the works by the City : —

From April 28, 1865, to December 1, 1865	$32,367 19
From December 1, 1865, to December 1, 1866	40,073 27
From December 1, 1866, to December 1, 1867	53,733 62

From December 1, 1867, to December 1, 1868	$63,747 42
From December 1, 1868, to December 1, 1869	76,149 30
From December 1, 1869, to December 1, 1870	92,605 95
From December 1, 1870, to December 1, 1871	111,782 65
From December 1, 1871, to December 1, 1872	127.201 30
From December 1, 1872, to December 1, 1873	146,117 32
From December 1, 1873, to December 1, 1874	153,634 27
From December 1, 1874, to December 1, 1875	138,880 37
From December 1, 1875, to December 1, 1876	179,166 76
From December 1, 1876, to December 1, 1877	154,843 59
From December 1, 1877, to December 1, 1878	157,443 91
From December 1, 1878, to December 1, 1879	164,681 90
From December 1, 1879, to December 1, 1880	173,325 49
From December 1, 1880, to December 1, 1881	170,062 73
From December 1, 1881, to December 1, 1882	177,430 80
From December 1, 1882, to December 1, 1883	179,361 89
From December 1, 1883, to December 1, 1884	161,526 27
From December 1, 1884, to December 1, 1885	185,544 36
From December 1, 1885, to December 1, 1886	199,404 43
From December 1, 1886, to December 1, 1887	204,748 64
From December 1, 1887, to December 1, 1888	211,156 27
From December 1, 1888, to December 1, 1889	221,124 70
From December 1, 1889, to December 1, 1890	231,116 32
From December 1, 1890, to December 1, 1891	227,054 53
From December 1, 1891, to December 1, 1892	237,527 08
From December 1, 1892, to December 1, 1893	242,219 78
From December 1, 1893, to December 1, 1894	250,032 71
From December 1, 1894, to December 1, 1895	268,813 62
From December 1, 1895, to December 1, 1896	281,030 00
From December 1, 1896, to December 1, 1897	291,457 62
From December 1, 1897, to December 1, 1898	297,129 78
From December 1, 1898, to December 1, 1899	302,569 00
From December 1, 1899, to December 1, 1900	319,479 37
From December 1, 1900, to December 1, 1901	320,468 01
From December 1, 1901, to December 1, 1902	323,500 53
From December 1, 1902, to December 1, 1903	333,777 34
From December 1, 1903, to December 1, 1904	339,109 27
From December 1, 1904, to December 1, 1905	343,916 00

Comparative Statement.

	1904.		1905.	
Construction Account. (Hobbs Brook Reservoir.)				
Received.				
From surplus receipts		$797 84		
From bonds issued				$10,800 00
Expended.				
Construction of reservoir, land settlements, services of City Solicitor, etc.		797 84	$2,191 32	
Balance to credit of Construction Account			8,608 68	
				10,800 00
Construction Account. (General)				
Received.				
Sale of old materials	$2,145 64		$800 29	
From bonds issued	12,647 06		21,903 49	
From surplus receipts	6,261 44			
		$21,054 14		$22,703 78
Expended.				
Sundry bills and pay rolls	$13,600 99		$14,541 14	
Meters and setting	3,999 12		4,343 51	
Examination of Stony Brook main	3,454 03		3,819 13	
		21,054 19		22,703 78
Construction Account. (Hobbs Brook Conduit.)				
Received.				
From sale of cement			$1 50	
From sale of bonds			250,000 00	
				$250,001 50
Expended.				
Construction of concrete conduit.			$226,337 47	
Balance to credit of account			23,664 03	
				250,001 50
Maintenance Account.				
Received.				
From "rates, fines, etc."	$347,217 15		$354,097 90	
From supply and repair account	3,372 21			
From sale of shrubs, grass, etc.	1,093 07			
Interest for 1903 reappropriated	4,280 00			
Interest for 1904 reappropriated			3,176 40	
Accrued interest on bonds sold			1,085 97	
		$355,962 43		$358,360 27
Expended.				
Care and repairs	$27,673 50		$25,821 30	
Salaries	9,463 50		10,499 00	
Work at Fresh Pond	9,996 93		11,799 28	
Work at Fresh Pond grading	12,500 00		4,285 50	
Hobbs Brook Reservoir	1,468 64		1,756 71	
Payson Park Reservoir	784 33		1,483 09	
Pumping, salaries and other expenses	17,298 19		15,060 92	
Stony Brook Reservoir	2,999 96		2,195 21	
Ice for drinking fountains	460 35		484 29	
Purchase of Metropolitan water	14,000 00		28,458 50	
Rent	1,200 00		1,200 00	
Refunds	3,373 75		1,879 07	
Abatements	3,917 88		2,885 33	
Sinking fund	121,522 50		121,522 50	
Interest on water debt	126,126 50		135,506 50	
Transferred to Construction Account	7,059 28			
		359,845 31		364,837 20
Maintenance account, deficit in receipts		$3,882 88		$6,476 93

In addition to the customary expenditures, there has been paid this year from the receipts for water the following amounts, viz. : —

Metropolitan water	$28,458 50
Grading at Fresh Pond Reservoir . .	4,285 50
	$32,744 00

If the above unusual expenditures had not occurred, there would have been excess receipts of $23,000.00.

In addition to the manufactories, business blocks, houses, etc., supplied through meters, water is supplied to 16,270 families, 489 stables, 1,442 horses, 64 cows, 150 shops, 352 offices and stores, by the following fixtures : —

18,728 faucets.	3 hopper closets.
6,865 wash basins.	30 urinals.
9,603 wash tubs.	7 yard hydrants.
6,330 bath tubs.	14 tumbler washers.
123 slop closets.	1,451 hand hose.
16,621 water closets.	5 motors.

Also,

1,031 fire hydrants (besides 19 on private premises).
8 fire reservoirs.
65 street watering standpipes.
28 drinking fountains in public squares.
4 public sanitaries.

The above schedule of fixtures does not include those in schoolhouses, engine houses, police stations, and other City buildings, or where the use of water is covered by meter.

The usual house-to-house inspection has been made.

Respectfully submitted,

WALTER H. HARDING,
Registrar.

ANNUAL STATEMENT OF THE WATER REGISTRAR TO THE COMMITTEE ON ACCOUNTS, DECEMBER 1, 1905

Uncollected November 30, 1904: —

Water rates	$5,410 37	
Supplies and repairs	778 16	
Off and on	150 00	
Seals	8 50	
Maintenance account	602 62	
Construction account	156 26	
		$7,105 93

Bills placed in the hands of the City Treasurer for collection from December 1, 1904, to December 1, 1905: —

Water rates	$351,399 53		
Supplies and repairs	4,024 61		
Off and on	529 00		
Rents	168 00		
Seals	88 75		
Maintenance account	2,916 16		
Construction account	1,271 99		
		$360,398 04	
Total bills			$367,503 97

There has been collected: —

Water rates	$345,795 07	
Supplies and repairs	3,585 81	
Off and on	499 00	
Rents	160 00	
Seals	91 25	
Maintenance account	1,081 44	
Construction account	800 29	
Total collections		$352,012 86

There has been abated: —

Water rates, off and on, and seals, supplies and repairs, and Construction account	$2,885 33

There remains uncollected: —

Water rates	$8,148 39		
Supplies and repairs	1,210 34		
Off and on	168 00		
Seals	5 75		
Maintenance account	2,437 34		
Construction account	627 96		
Rent	8 00		
		$12,605 78	
Total bills for collection			$367,503 97
Less abated	$2,885 33		
Less refunded	1,879 07		
Less unpaid	12,605 78		
		$17,370 18	$17,370 18
Net receipts			$350,133 79

Attest:

WALTER H. HARDING,
Registrar.

CAMBRIDGE, December , 1905.

We have examined the accounts of the Water Registrar and find that they correspond in the amounts collected, abated, refunded, and uncollected with the statement submitted by the City Treasurer and verified by the City Auditor.

Committee on Accounts.

CAMBRIDGE, MASS.,
OFFICE OF THE CITY TREASURER.

To the Cambridge Water Board: —

I give you herewith a record of the transactions between the Water Office and the City Treasurer's Office during the year ending November 30, 1905.

Gross collections for account of Water Works — Maintenance, Water Rates and Supply Accounts	$354,097 90
Gross collections for account of Water Works — Construction Account	3,851 74
Abatement certificates received and paid on Water Rates	2,885 33
Refund certificates received and paid on Water Rates	1,879 07
Uncollected bills in my hands November 30, 1905, for account of Water Rates, Maintenance and Supply Accounts	11,977 82
Uncollected bills November 30, 1905, for account of Construction	627 96

Very respectfully,

WM. W. DALLINGER,
City Treasurer.

I have examined the above statement and find the same correct.

HARRY T. UPHAM,
City Auditor.

REPORT OF THE SUPERINTENDENT OF WATER WORKS

CAMBRIDGE, December, 1905.

To the Honorable Water Board of the City of Cambridge: —

GENTLEMEN: — Complying with the City Ordinance, I herewith submit the annual report of the Superintendent, for the year ending November 30, 1905.

	Gallons.
Total water pumped	2,773,089,640
Total water purchased from Metropolitan Water and Sewerage Board	521,070,000
Total water consumed	3,294,159,640
Quantity of water sold by meter	1,240,569,750
Quantity of water used for sprinkling streets	77,000,000
Quantity of water used for flushing sewers	1,000,000
Quantity of water used for cleaning sanitaries	7,500,000
Quantity of water used for public buildings	33,000,000
Quantity of water used for drinking fountains	35,000,000
Quantity of water used for testing meters	58,000
Quantity of water used for fire purposes	4,000,000

Number of gallons daily for each inhabitant on the total amount consumed, 92.63.

COMPARATIVE STATEMENT OF TOTAL CONSUMPTION DURING THE PAST TEN YEARS.

Date	Total Yearly Consumption.	Increase or Decrease.	Average Daily Consumption.	Increase or Decrease.	Gallons to each inhabitant daily.	Estimated Population.
1896	2,413,506,557	222,724,665 increase	6,594,280	592,138 increase	75.90	81,643
1897	2,441,340,196	27,833,639 "	6,688,603	94,323 "	76.46	87,480
1898	2,792,321,110	350,980,914 "	7,650,195	961,592 "	85.69	89,276
1899	2,882,570,430	90,249,320 "	7,897,453	247,258 "	87.16	90,607
1900	2,651,277,240	231,293,190 decrease	7,263,773	633,680 decrease	78.69	92,300
1901	2,785,156,440	133,879,200 increase	7,630,566	366,793 increase	80.87	92,716
1902	2,930,553,545	145,397,105 "	8,028,914	398,348 "	85.27	94,152
1903	3,160,704,360	230,150,815 "	8,659,463	630,549 "	89.56	96,685
1904	3,210,982,145	50,277,785 "	8,773,175	113,712 "	89.68	97,826
1905	3,294,159,640	83,177,495 "	9,025,095	251,920 "	92.63	97,426

Total amount of coal consumed	3,589,600 lbs.
Amount consumed in 59 days in which Metropolitan Water and Sewerage Board supplied the City	95,405 "
Total amount used for pumping purposes	3,494,195 "
Daily average amount used for pumping purposes (306 days)	11,419 "
Daily average on total amount consumed	9,834 "
Coal consumed per million gallons pumped	1,260 "
Highest water elevation in Fresh Pond was on December 28, 1904	16.10
Lowest water elevation in Fresh Pond was on August 4th	9.69
Average height of water in Fresh Pond	12.91
Highest water elevation in Stony Brook Reservoir was on March 20	82.16
Lowest water elevation in Stony Brook Reservoir was on March 8	79.17
Highest water elevation in Hobbs Brook Reservoir No. 1, Lincoln Street, was on March 27th	181.75
Lowest water elevation in Hobbs Brook Reservoir No. 1, Lincoln Street, was on September 1st.	180.15
Highest water elevation in Hobbs Brook Reservoir No. 2, Winter Street, was on March 28th	181.73
Lowest water elevation in Hobbs Brook Reservoir No. 2, Winter Street, was on December 27, 1904	178.08
Total rainfall at Fresh Pond Pumping Station	32.68
Total rainfall at Stony Brook Reservoir	38.40
Total rainfall at Hobbs Brook Reservoir	37.96

TOTAL RAINFALL FOR THE PAST TEN YEARS.

	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
	In.	In.	In.	In.	In.	In.	In.	In.	In.	In.
December	1.90	1.63	4.31	2.00	1.30	1.74	7.71	4.37	2.87	1.92
January	2.46	3.32	4.75	3.85	4.40	1.55	1.97	3.19	5.00	3.47
February	5.62	2.36	3.61	3.99	7.34	.79	4.29	3.50	3.00	1.09
March	4.37	2.66	2.03	5.94	5.10	6.89	6.16	4.89	2.35	2.52
April	1.70	2.82	6.22	1.32	1.99	8.80	3.56	3.98	8.57	2.87
May	2.42	4.24	3.92	.77	5.52	6.96	1.08	.35	3.58	1.30
June	2.33	5.16	1.82	3.17	2.75	1.33	2.40	8.46	2.74	4.41
July	2.65	4.68	4.50	3.12	2.31	4.70	3.14	3.72	1.70	1.86
August	2.45	5.06	7.34	3.21	2.80	4.17	3.62	3.81	2.53	3.06
September	6.29	3.22	1.78	4.63	4.40	3.74	3.36	1.72	5.87	5.97
October	3.10	.55	7.22	3.08	3.75	2.86	4.65	4.54	1.85	1.30
November	3.53	6.83	4.92	2.20	5.23	2.67	1.37	1.70	2.83	2.91
Total	38.82	42.53	52.42	37.28	46.89	46.20	43.31	44.23	42.89	32.68

FRESH POND AND SURROUNDINGS.

Work on the completion of Kingsley Park was resumed this year, and the work has been finished as far as the grading and seeding.

The greater part of the planting of shrubs and trees has been done and little now remains to be finished the coming year. I would recom-

mend that the shelters for the look-offs be built this season, according to the plans furnished by French & Bryant.

Also that a drinking fountain and a suitable sanitary be established for the convenience of the people visiting this resort.

There should also be placed a number of park settees for the use of the public.

The Metropolitan water, which was in use at the date of last report, was shut off on December 27th, the Pond gauge reading at the time 16.05, and pumping from the Pond was resumed.

Arrangements having been again made with the Metropolitan Water and Sewerage Board, on August 4th, when the Pond was at elevation 9.69, the water was again let on and continued in use until September 6th, when the Pond had reached elevation 14.41.

The following statement shows the amount of water purchased from the Metropolitan Water and Sewerage Board in 1904 and 1905: —

April, 1904	27,200,000	gallons.
May	274,400,000	"
June	29,940,000	"
November	48,100,000	"
December	251,900,000	"
August, 1905	221,670,000	"
September	47,500,000	"
	900,710,000	"

Price paid for same — $42,458.50.

The water from the new conduit was let on November 2nd, the Pond level being at the time, 11.86. The level of the Pond on December 2nd, was 12.80, a gain of nearly one foot.

The grass not needed for use of the Department has been sold at auction.

Average height of the Pond for the year has been 12.91 feet.

I would recommend that the next work undertaken at the Pond be the finishing of the roadway on the westerly side of the Pond leading from Huron Avenue to the corner of Washington Street. This roadway is completed to sub-grade and with the exception of the entrance from Huron Avenue very little heavy grading would need to be done. The great part of the expense would be the surfacing of the roadway.

The grounds, roadways and walks about the Pond have received the usual care.

FRESH POND RESERVOIR.

		Lowest Elevation During Month.	Highest Elevation During Month.	Monthly Rainfall.	Intake Gate. This gate has been closed daily for one-half hour in the morning and one-half hour in the afternoon, *i. e.*, 8 to 8.30 a. m. and 4 to 4.30 p. m. for the purpose of expelling the air from the Stony Brook main.	
					8-inch Opening.	30-inch Opening.
1904						
December	1.	12.97	.....	.....	Open. During entire month, 28 turns	Open. During entire month, 30 inches
December	28.	.....	16.10	1.92		
1905						
January	8.	.....	15.97	.....	" " " "	" " " "
January	31.	14.94	.....	3.47		
February	1.	.....	14.88	.....	" " " "	" " " "
February	28.	13.43	.....	1.09		
March	9.	.....	13.02	.....	" " " "	" " " "
March	31.	13.39	.....	2.52		
April	7.	.....	13.45	.....	" " " "	" " " "
April	30.	12.94	.....	2.87		
May	1.	.....	12.92	.....	May 6, closed for 2 hours	May 6, closed for 2 hours
May	31.	11.90	.....	1.30		
June	2.	.....	11.97	.....	During entire month, 28 turns	During entire month, 30 inches
June	29.	11.12	.....	4.41		
July	1.	.....	11.18	.....	" " " "	" " " "
July	31.	9.73	.....	1.86		
August	4.	9.69	.....	.....	" " " "	" " " "
August	31.	.....	13.18	3.06		
September	1.	13.30	.....	.....	" " " "	" " " "
September	6.	.....	14.41	5.97		
October	1.	13.28	.....	.....	October 5, closed at 5 p. m.	October 5, closed at 5 p. m.
October	31.	.....	11.86	1.30	" 6, opened at 1.30 p.m.	" 6, opened at 1.30 p. m.
November	1.	11.86	.....	.....	" 30, closed at 2 p. m.	" 30, closed at 2 p. m.
November	30.	.....	12.55	2.91		
				32.68		

PUMPING STATION AND GROUNDS.

The buildings and grounds are in good condition and have required no repairs this year.

The engines and boilers are in good condition. A new set of grate bars have been furnished No. 2 boilers.

The usual repairs have been made by the regular force at the station.

The Leavitt engine has pumped all the water used from the Pond and has never performed its work as satisfactorily as during the past year.

The Chief Engineer's report is appended.

	Engine No. 7.			Total Water Purchased from Metropolitan Water and Sewerage Board.	Total Water Consumed.	Daily Average Water Consumed.	Total Coal Consumed.	Daily Average Coal Consumed.	Average Height of Pond.	Rainfall.
	Running Time.		Total Water Pumped.							
1904.	Hrs.	Min.	Gallons.	Gallons.	Gallons.	Gallons.	Lbs.	Lbs.	Feet.	Ins.
December..	66	30	50,159,120	251,900,000	302,059,120	9,743,840	107,640	12,972*	14.74	1.92
1905.										
January...	389		295,083,800		295,083,800	9,518,832	379,550	12,243	15.52	3.47
February..	363	30	288,451,680		288,451,680	10,301,845	370,990	13,249	14.13	1.09
March.....	370		278,379,200		278,379,200	8,979,974	359,795	11,606	13.25	2.52
April.....	345	30	263,017,040		263,017,040	8,767,234	339,100	11,303	13.22	2.87
May.....	374		284,889,880		284,889,880	9,189,996	351,100	11,326	12.43	1.30
June	348		263,732,040		263,732,040	8,791,068	326,750	10,891	11.49	4.41
July.....	415		291,765,320		291,765,320	9,411,784	350,300	11,300	10.41	1.86
August....	39		25,396,120	221,670,000	247,066,120	7,969,871	72,575	9,650*	11.32	3.06
September	284	30	216,206,320	47,500,000	263,706,320	8,790,210	285,400	11,056*	13.36	5.97
October....	355	15	272,439,640		272,439,640	8,788,379	336,100	10,842	12.41	1.30
November.	317	30	243,569,480		243,569,480	8,118,982	310,300	10,343	12.24	2.91
Total.....			2,773,089,640	521,070,000	3,294,159,640	9,025,095	3,589,600		12.91	32.68

* Average daily coal used while pump was in use.

OPERATING EXPENSES AT PUMPING STATION.

Advertising	$9 50
Building repairs	151 04
Carpentry	10 08
Disinfectants	2 00
Electrical work and supplies	102 78
Engine and boiler repairs and supplies	206 69
Expressage	7 53
Fuel	5,983 08
Grates	273 33
Hardware, tools and repairs	249 35
Ice	15 60
Lumber	7 08
Oil, waste and packing	426 80
Painting	3 40
Sealer of weights and measures	1 64
Telephone	81 30
Wall repairs	44 00
	$7,575 20
Salaries and labor	7,485 72
	$15,060 92

THE FORTY-INCH STEEL DISTRIBUTING MAIN.

No leaks have occurred on this main during the year. The portions across the railroad tracks and over the cut at Holworthy Street should be scraped and painted the coming season.

PAYSON PARK RESERVOIR.

The grounds about the Reservoir have received a coat of dressing where needed and are in good condition.

The stone and brick work of the gate house has been thoroughly repointed and the wood work painted and the building is now in first-class condition.

The former keeper Alfred Mason, who had been in charge at the Reservoir since its completion, died last August and T. J. Reagan has been appointed by the Board in his place.

PIPE YARD.

The dwelling house at the Yard should be shingled this year.

The sheds are also in bad condition, needing shingling and new sills under a portion of them.

I would recommend that storage sheds be built this year along the southerly line of the lot; these are very much needed as a large part of our stock cannot be properly stored at present. We have on hand from the pipe line a large amount of material that can be used for this purpose to good advantage.

HIGH SERVICE.

Following is the list of streets supplied from the high service: —

Aggassiz Street.
Appleton Street, from Highland Street to beyond Hutchinson Street.
Arlington Street.
Avon Hill Street.
Bates Street.
Bellevue Avenue.
Bellevue Avenue, west.
Buena Vista Park.
Concord Avenue, from Huron Avenue to Buckingham Street.
Garden Street, from Huron Avenue to Linnaean Street.
Highland Street, from Reservoir Street to Appleton Street.
Hillside Avenue.
Holly Avenue.
Humboldt Street.
Huron Avenue, from Appleton Street to Raymond Street.
Lancaster Street.
Linnaean Street.
Mount Pleasant Street.
Raymond Street, from Linnaean Street to Walden street.
Reservoir Street, from Highland Street.
Upland Road, from Richdale Avenue to Huron Avenue.
Vassal Lane, from Huron Avenue.
Vincent Street.
Walnut Avenue.
Washington Avenue.

LIST OF CHECK VALVES IN USE.

Appleton Street at Hutchinson Street.
Avon Hill Street and Linnaean Street.
Concord Avenue at Buckingham Street.
Garden Street and Linnaean Street.
Raymond Street and Linnaean Street.
Upland Road near Mount Vernon Street
Vincent Street at Walden Street.

LEAKAGE.

The total number of leaks for the year was two thousand one hundred ninety-one (2,191).

The following leaks were reported to and cared for by the Department : —

Two hundred four (204) on supplies.
Two (2) on hydrants.
Four (4) on gates.
Three (3) on street watering standpipes.
Five (5) on four-inch main pipes.
Nine (9) on six-inch main pipes.
Seven (7) on eight-inch main pipes.
One (1) on twelve-inch main pipe.
One (1) on twenty-four-inch main pipe.
One (1) on thirty-inch main pipe.
Total, two hundred thirty-seven (237).

Fourteen (14) of the leaks of the above statement were caused by electrolysis and thirteen (13) were caused by the Sewer Department construction.

The supplies on which forty-one (41) leaks occurred were renewed.

The Inspectors on the canvass discovered nineteen hundred fifty-four (1,954) leaks classified as follows : —

Sixteen hundred four (1,604) on water closets.
Three hundred thirteen (313) on faucets.
Sixteen (16) on tanks.

Ninteen (19) on supplies.

Two (2) on water valves.

These leaks were repaired by the owner of premises.

The leak on the old pumping main at the corner of Huron Avenue and Fayerweather Street has been to date, an expense of one thousand twenty-two dollars and ninety-five cents ($1,022.95). This amount does not include the claims for damages that are pending.

Total leaks during the past five years: —

1901	2,302
1902	2,339
1903	2,281
1904	2,114
1905	2,191

TABLE SHOWING GAIN IN THE TOTAL CONSUMPTION FOR THE YEAR 1905 OVER THE YEAR 1904.

	Total Consumption 1905.	Total Consumption 1904.	Increase.	Decrease.
1904				
December	302,059,120	275,246,840	26,812,280	.....
1905				
January	295,083,800	304,044,400	.....	8,960,600
February	288,451,680	292,277,480	.....	3,825,800
March	278,379,200	260,823,640	17,555,560	.....
April	263,017,040	242,749,840	20,267,200	.....
May	284,889,880	274,400,000	10,489,880	.....
June	263,732,040	266,626,785	.....	2,894,745
July	291,765,320	271,314,120	20,451,200	.....
August	247,066,120	262,107,120	.....	15,041,000
September	263,706,320	252,276,200	11,430,120	.....
October	272,439,640	265,614,800	6,824,840	.....
November	243,569,480	243,500,920	68,560	.....
Total	3,294,159,640	3,210,982,145	83,177,495	.....

MAIN PIPE.

A new twelve-inch main pipe has been laid from the canal bridge in First Street through the new location of same street and up through Main Street on the north side towards the junction of Broadway. This pipe in Main Street is to take the place of the old eight-inch line which was laid in 1871.

A new line of eight-inch pipe has been laid on the south side of Main Street from Wadsworth Street to near the Parkway.

These new mains are connected together at the end near the West Boston Bridge.

The tables of main pipes will be found on pages 51 and 61.

Following are the streets in which the main pipes have been renewed:

In Chestnut Street from Magazine Street to Pearl Street, four hundred seventy (470) feet of six-inch have been laid; the original pipe in this location was of four-inch and laid in 1871 and 1872.

In Greenough Avenue from Ellsworth Avenue to Highland Avenue, three hundred sixty (360) feet of four-inch pipe have been laid. The old four-inch pipe formerly supplying this vicinity was laid in 1875, 1876, 1881.

In Huron Avenue from Lake View Avenue to Lexington Avenue, the old four-inch main laid in 1888 and 1889 has been removed and three hundred fifty-six (356) feet of six-inch pipe laid.

In Tremont Street from Cambridge Street, north, the old four-inch pipe laid in 1869, has been removed and four hundred sixty-eight (468) feet of six-inch pipe laid in its place.

The annual blowing off of main pipes in all sections of the City has been of great benefit in improving the quality of the water.

The usual number of complaints of the disturbed condition of the water have been remedied during the year — outside of the annual blowing off.

In sixteen (16) locations the blow-offs have been reset.

In the several streets where the Sewer Department has constructed sewers, the main pipes have been offset and in cases where there were abandoned mains, they have been removed for the accommodation of the sewer locations.

The improvement of Broad Canal by the Charles River Dam Commission makes necessary the changing of the water mains now crossing at First, Third and Sixth Streets.

The water pipes are now laid in the mud and are of smaller sizes than are desirable in view of the future growth of the City and the fact that the section supplied is largely manufacturing.

As electrolysis may very seriously affect these submerged pipes, I would recommend that tunnels be constructed at these points and that the pipes be laid in them. I have no doubt but that the Cambridge Gas

Light Company would be very glad to co-operate in this matter so that their mains might be put in the same structures.

MAIN PIPE LAID, NUMBER OF GATES AND FIRE HYDRANTS.

	Iron Pipe.		Gate.	Hydrants.
	Feet.	Size.	Size.	Kind.
		inch.		
Albany Street	150	12	.....	....
Albany Street	.....	.....	12	.....
Appleton Street	6½	6	.....	... .
Appleton Street	.....	.....	.....	Chapman.
Athenæum Street, connected to Second Street	231	8	8	.....
Athenæum Street, at Second Street	40	6	.....	Chapman.
Boylston Street	34	6	.....	.....
Cambridge Street and Massachusetts Avenue	31	6	.....	Chapman.
Camp Street	318½	6	6	.....
Chestnut Street, from Magazine Street to Pearl Street	470	6	.....	.....
Craigie Street	2½	6	.....	Boston.
Everett Street	18	6	.....	Chapman.
Everett Street	.....	.....	.....	Chapman.
Farrar Street from Holden Street	87	6	6	.....
First Street	34	6	6	Chapman.
Frost Street, near Forest Street	.....	.....	.....	Boston.
Greenough Avenue (entire length)	360	4	4	.....
Hampshire Street, at Page Box Co	.....	.....	.....	Coffin.
Holden Street, from Kirkland Street to Scott Street	760½	6	6	Chapman.
Holden Street	.....	.....	6	.....
Highland Avenue, Court off	228	4	4	.....
Huron Avenue, Larch Road to Lake View Avenue	974	6	6	Chapman.
Huron Avenue	.....	.....	6	....
Huron Avenue	.....	.....	6	.....
Huron Avenue, at Reservoir Street	382	8	8	.....
Kirkland Street and Baldwin Street	10	6	.....	Chapman.
Kirkland Street and Divinity Avenue	12	6	.....	Chapman.
Kirkland Street and Kirkland Place	32	6	.....	Chapman.
Kirkland Street and Oxford Street	29	6	.....	Chapman.
Kirkland Street and Trowbridge Street	10	6	.....	Chapman.
Kirkland Street, at Holden Street	2½	10	.....	.....
Larch Road, from Huron Avenue	555	6	6	Chapman.
Larch Road, from Huron Avenue	.....	.....	6	Chapman.
Main Street and First Street	51	6	.....	.....
Main Street and First Street	575	12	12	....
Main Street and First Street	1103	8	6	Chapman.
Main Street and First Street	.....	.....	6	Chapman.
Main Street and First Street	.....	.....	.....	Chapman.
Main Street and First Street	.....	.....	.....	Chapman.
Main Street and First Street	.....	.....	.....	Chapman.
Massachusetts Avenue, at Arlington Street	8½	6	.....	Chapman.
Morrison Court	113	1¼	.....	....
Mt. Auburn, at Trail Street	2	12	.....	.....
Murray Street	33	4	4	.....
Pacific Street	8	6	.....	.....
Pacific Street, extension	5	8	.....	Chapman.
Pearl Terrace, from Pearl Street	133	4	4	.....
Royal Avenue, extension	48	6	.....	....
Scott Street, from Holden Street	205	6	.....	.....
Trail Street, connection at Mt Auburn Street	139	6	6	....
Tremont Street, from Cambridge Street, north	468	6	6	Chapman.
Tremont Street, from Cambridge Street, north	.....	.....	.....	Chapman.
Union Place, from Union Street	102	1	.....	....
Vassal Lane, from Appleton Street to Reservoir Street	309	6	6	Chapman.

SUPPLIES.

The total number of supplies laid to November 30, 1905, is fourteen thousand nine hundred thirty-three (14,933).

See page 61 for account of number and size of supplies laid, etc., etc.

One hundred twenty-one (121) supplies were laid of galvanized wrought iron pipe in sizes from three-quarter-inch to two-inch inclusive and nine (9) were of cast-iron pipe and were located as follows: —

6-inch for Blanchard Machine Co., State Street.
8-inch for Boston & Maine, Bridge Street.
6-inch for Cambridge Gas Light Company, Athenaeum Street.
6-inch for Ginn & Company, Athenaeum Street.
6-inch for Edward C. Sherburne
6-inch for Memorial Hall, Cambridge Street.
4-inch for Stillman Infirmary, Mount Auburn Street.
6-inch for Ward-Corby Company, Albany Street.
6-inch for Warren Brothers, Potter Street.

Seven (7) supplies were laid for the temporary use of the Sewer Department. They have been removed and are not included in the above list.

As requested from time to time during the year, the Sewer Department has been accommodated by offsetting supplies where they have conflicted with the construction of the sewers.

On account of the change in the lines and resurfacing of Main Street, the supplies have been renewed from the new main to the property lines.

One hundred seventy-six (176) supplies have been renewed in locations where the original supply was inadequate, leaking or too old for further use. In addition to these, the supplies, as designated in the following streets, were renewed as the main pipe in street was renewed or by request of Street Department which was constructing new street surface —

Cambridge Street	12
Chestnut Street	3
Concord Avenue	13
Greenough Avenue	6
Huron Avenue	2
Lambert Street	19
Orchard Street	5
Putnam Avenue	9
Tremont Street	22
Union Place	4
Warren Street	22
	117

Total number of supplies renewed during the year was two hundred ninety-three (293).

One hundred seventy-seven (177) service boxes have been set on old supplies.

The service boxes on supplies in all parts of the City were inspected in the Spring as usual and as necessary were raised or lowered. Outside of this annual inspection in sixty-seven (67) cases, the service boxes have been changed to conform to the sidewalk elevation.

Seventy-two (72) supplies were thawed out by the Department last Winter and Spring.

Following is the list of establishments having fire protection from the City of Cambridge : —

American Rubber Co.,	Binney Street,	Two 6-in.
American Net & Twine Co.,	Third Street,	Two 6-in.
American Net & Twine Co.,	Third Street,	8-in.
American Vulcanized Fibre Co.,	Tannery Street,	2-in.
Barber Asphalt Paving Co.,	First Street,	6-in.
Bay State Metal Works,	Harvard Street,	6-in.
Blacker & Shepard,	Osborn Street,	2-in.
Blake, George F., Manufacturing Co.,	Binney Street,	8-in.
" " " "	Third Street,	4-in.
Blanchard Machine Co.,	State Street,	6-in.
Boston Book Binding Co.,	Mt. Auburn Street,	6-in & 4-in.
Boston Elevated Railway Co.,	Baldwin Street,	2-in & 4-in.
" " " "	Cambridge Street,	Two 2-in.
" " " "	Pelham Street,	Three 4-in.
" " " "	Massachusetts Avenue,	4-in.
" " " "	Mt. Auburn Street,	4-in. & 2-in.
" " " "	Murray Street,	4-in.
" " " "	River Street,	4-in.
Boston & Maine Railroad,	Bridge Street,	4-in.
" " "	Bridge Street,	6-in.
" " "	East Street,	6-in.
" " "	Prison Point Street,	4-in.
Boston Woven Hose & Rubber Co.,	Portland Street,	Two 8-in.
Cambridge Gas Light Co.,	Third Street,	6-in.
Cambridge Electric Light Co.,	Western Avenue,	6-in.
Cambridge Laundry	Kinnaird Street,	6-in.
Cambridge Mutual Fire Insurance Co.,	Massachusetts Avenue,	2-in.
Chelmsford Foundry Co.,	Portland Street,	2-in.
Dover Stamping Co.,	Pleasant Street,	6-in.
Ginn & Co.,	First Street,	Two 6-in.
" "	Athenaeum Street,	8-in.
Goepper Bros.,	Ninth Street,	1-1-2-in.
Harvard University,	Harvard Union, Harvard St.,	4-in.
" "	Memorial Hall, Cambridge St.,	4-in.
" "	Observatory, Concord Ave.,	6-in.
" "	Semitic Mus'm, Divinity Ave.,	4-in.

Hews, A. H., Co.,	Crescent Avenue,	Two 4-in.
Holy Ghost Hostipal for Incurables,	Hovey Avenue,	3-in.
Houghton, Mifflin & Co.,	Albro & Blackstone Streets,	6-in.
" " "	River Street,	6-in.
Irving & Casson,	Otis Street,	6-in.
" "	Thorndike Street,	Two 6-in.
" "	Thorndike Street,	2-in.
Ivers & Pond Piano Co.,	Albany Street,	4-in & 6-in.
Keeler & Co.,	Thorndike Street,	1-in.
Kendall, Edward, & Sons,	Main Street,	2-in.
Lamb & Ritchie,	Albany Street,	6-in.
Lever Bros. Co.,	Broadway,	6-in.
" " "	Broadway,	8-in.
Little, Brown & Co.,	Putnam Avenue,	6-in.
Lockhart, Wm. L., & Co.,	First Street,	6-in.
Luke, E. H., Estate of,	Main Street,	2-in.
Mason & Hamlin Co.,	Broadway,	Two 6-in.
McLean, Isaac,	Mt. Auburn Street,	4-in.
McLean, Isaac,	Massachusetts Avenue,	4-in.
Metropolitan Storage Warehouse Co.,	Massachusetts Avenue,	6-in.
Middlesex C'ty, House of Correction,	Second & Spring Streets,	6-in.
National Biscuit Co.,	Franklin Street,	4-in.
" " "	Franklin Street,	6-in.
" " "	Green Street,	8-in.
National Linseed Oil Co.,	Fifth Street,	6-in.
North Packing & Provision Co.,	Winsor Street,	6-in.
O'Brien, John (Rev.),	Seventh Street,	4-in.
Page, Geo. G., Box Co.,	Hampshire Street,	Two 6-in.
Petterson, Oscar G.,	483 Main Street,	4-in.
Pierce, Thomas, Trustee of Estate of,	Broadway,	6-in & 4-in.
Pi Eta Club,	Winthrop Street,	2-in.
Porter, Henry S.,	Kinnaird Street,	4-in.
Reardon, John, & Sons, Corporation,	Waverly Street,	4-in.
Reardon, William,	Portland Street,	2-in.
Revere Sugar Refinery,	Water Street,	6-in.
Reversible Collar Co.,	Putnam Street,	6-in.
Russell, Lucy J.,	29 Elm Street,	1-1-2-in.
Rice, P. G., & Co.,	Massachusetts Ave. & Lee St.,	Two 2-in.
Sawyer, Howard M., & Son,	Thorndike Street,	4-in.
" " " "	Second Street,	6-in.
Seavey Manufacturing Co.,	Third Street,	6-in.
Seelye Manufacturing Co.,	First Street,	4-in.
Sherburne, Edward C.,	Pacific Street,	6-in.
Simplex Electrical Co.,	Auburn Street,	3-in.
" " "	Auburn Street,	6-in.
" " "	Franklin Street,	8-in.
Slavens, Luther R.,	Broadway,	2-in.
Sparrow, H. F., & Co.,	Hampshire Street,	6-in.
Speare's, Alden, Sons & Co.,	Rogers Street,	4-in.
" " " "	Sixth Street,	4-in.
Standard Oil Co.,	Potter Street,	6-in.
Standard Turning Works,	Main Street,	2-in.
Thayer & Co., Henry,	Broadway,	6-in.
Tower, Sylvester, & Son,	Broadway,	4-in.
University Associates,	Linden Street,	4-in.
"	Massachusetts Avenue,	6-in.

University Press,	Nutting Place,	6-in.
Ward, Corby Co.,	Albany Street,	6-in.
Warren Bros.,	Potter Street,	6-in.
Wetmore, C. D.,	Claverly Hall, Mt. Auburn St.,	4-in.
Whittemore Brothers,	Albany Street,	4-in.

DRINKING FOUNTAINS.

The number of drinking fountains and troughs remains unchanged, *i. e.*, twenty-eight (28).

Of the above number, four (4) are of the Jenks manufacture and are ice water drinking fountains. These were supplied with ice at an expense to the Water Department, from June 15th to October 24th, inclusive, as follows : —

Central Square fountain	$129 90
East Cambridge fountain	125 55
Harvard Square fountain	103 43
North Cambridge fountain	135 30
	$494 18

Average cost per day of supplying ice (132 days) for these fountains was, per fountain, 94 cents.

In response to the calling the Department's attention to acts of 1902 by the Cattle Bureau of State Board of Agriculture, the fountains and troughs have been carefully watched and cleaned.

In all sections of the City the fountains have been painted and the usual and necessary repairs made.

STREET WATERING STANDPIPES.

Sixty-five (65) street watering standpipes are in use at this date, November 30, 1905.

Thirty-nine (39) standpipes have been repaired during the year.

The cost of these repairs has been met by the Street Watering Department, as has been the custom in previous years.

GATES.

Twenty-seven (27) new gates have been set during the year (see recapitulation table, page 61).

Seven (7) have been placed on renewals of main pipe.

Sixteen (16) have been placed on new mains (extensions).

Four (4) have been placed on supplies.

The gates have been given their annual inspection and found in good condition.

Their locations have been carefully marked.

BOXES.

There have been eighty-seven (87) boxes set this year.

Twenty-one (21) iron and two (2) small wooden have been set on extensions and renewals of main pipe.

Five (5) special wooden and thirteen (13) Merrill boxes have been set on meters.

Ten (10) iron boxes have been set on new supply work.

Two (2) flush hydrants, two (2) wooden and thirty-two (32) iron boxes have been set in place of worthless ones removed.

The gate boxes in all parts of the City have been inspected and repaired.

Upon request by Street Department or as changes in street grades have required, the boxes have been raised or lowered to conform to new elevation.

This care has also been given to those that have been affected by frost.

HYDRANTS.

Total number of hydrants in use at this date, November 30, 1905, is one thousand thirty-one (1,031).

Boston	156
Chapman	567
Coffin	41
Flush	87
Holyoke	89
Perkins	91
	1,031

Twenty-eight (28) hydrants have been set during the year: Thirteen (13) in new locations and fifteen (15) in place of old or disabled ones removed.

One flush hydrant has been removed from East Street as it will be no longer needed there. Flush hydrants have been removed from the streets following: —

Cambridge Street at Massachusetts Avenue.
East Street.
Everett Street (2).
Kirkland Street at Baldwin Street.
Kirkland Street at Oxford Street.
Kirkland Street at Trowbridge Street.
Main Street (117).
Main Street at First Street.
Massachusetts Avenue at Arlington Street.
Tremont Street at Cambridge Street.

Post hydrants have been removed from the streets following: —

Concord Avenue at Craigie Street (Holyoke).
Frost Street near Forest Street (Boston).
Hampshire Street at Page Box Company (Coffin).
Prison Point Street (Boston).

In fourteen (14) locations the post hydrants have been repaired.

In Cedar Street, Sargent Street, Tannery Street and Trowbridge Street the hydrants have been relocated.

There have been two Chapman hydrants sold to and set for the Cambridge Gas Light Company on its premises on Second Street.

The need of uniformity in hose couplings of hydrants has recently been emphasized in the great fires at Baltimore and Rochester.

Our hydrants have always had the 3-inch connection instead of the $2\frac{1}{2}$-inch which has been adopted by the following associations interested:

American Water Works Association.
National Fire Protection Association.
National Board of Fire Underwriters.
Committee of the National Board of Fire Underwriters.
New England Water Works Association.
National Firemen's Association.
International Association of Fire Engineers.

Our Chief of Fire Department has urged in his report the change, and I would recommend that in future all hydrants purchased be fitted with the standard outlets and that the hydrants in use be changed as rapidly as possible.

METERS.

Three hundred forty-six meters have been set this year in locations which were not covered by meter on November 30, 1904, as follows: —

	2 inch.	1 1-2 inch.	1 inch.	3-4 inch.	5-8 inch.	Total.
Crown			1	2		3
Hersey	1		4	11	21	37
Lambert				1	3	4
Nash				1		1
Trident		1	2	9	12	24
Union Rotary	2	1				3
Worthington	2	4	7	30	231	274
	5	6	14	54	267	346

Total number of meters in use on domestic supplies, churches and manufactories, at this date, November 30, 1905, is twenty-eight hundred eighty-six (2,886).

	6 inch.	4 inch.	3 inch.	2 inch.	1 1-2 inch.	1 inch.	3-4 inch.	5-8 inch.	Total.
Ball & Fitts						1			1
Crown		2		7	4	6	15	9	43
Empire						2			2
Gem	1								1
Hersey	1	1	4	21	15	118	290	743	1,193
Keystone								57	57
Lambert						5	34	92	131
Nash								13	13
Thomson					1		3	5	9
Trident			5	14	21	104	235	374	753
Union Rotary	1	9	7	15	11	2	10	12	67
Worthington		2	4	15	16	40	70	469	616
	3	14	20	72	68	278	657	1,774	2,886

And forty-eight (48) in public buildings, for which the Department receives no income.

These meters are placed on the buildings in use by the City, *i. e.*, schools, engine houses, stations, etc., in order to determine the amount of water used for such purposes: —

	2 inch.	1 1-2 inch.	1 inch.	3-4 inch.	5-8 inch.	Total.
Ball & Fitts			1			1
Crown	1	1	2		1	5
Hersey			7	8		15
Trident			10	1	5	16
Thomson		1				1
Union Rotary	1					1
Worthington			6	2	1	9
	2	2	26	11	7	48

STONY BROOK PIPE LINE.

That portion of this line from Fresh Pond to Irving Street in Watertown where the new concrete conduct begins has been out of use since November 2nd and the air ejector at Holworthy Street has been removed. The rest of the line has developed no leaks and is apparently in good condition.

The air valves have been opened frequently and everything done possible to keep the flow up to the maximum.

Readings from the Venturi meter have been taken monthly.

The gate house at the 36-inch blow-off is in bad condition. I would recommend that it be covered with galvanized iron for protection.

STONY BROOK.

Four new cesspools have been constructed during the year, making twenty-seven cesspools and eighteen vaults now cared for by this Department.

The water in this basin has been kept as high as thought safe during the past year, in order that the flow to Fresh Pond might be as large as possible.

HOBBS BROOK.

The keeper's house at the basin will need painting this year. A bath-room has been supplied the past season and water from the well brought into the house.

All standing grass not needed has been sold as in former years.

The buildings on the Evan's farm, which were sold last year, have been removed.

The bridge at the Lincoln Street dam has been replanked.

The average elevation of water in this basin for the past year has been 181.30 feet, the highest, 181.75 feet, and the lowest, 180.15 feet.

STONY BROOK.				HOBBS BROOK.							
				LINCOLN STREET. Basin No. 1.				WINTER STREET. Basin No. 2.			
	Lowest elevation during month.	Highest elevation during month.	Rainfall.		Lowest elevation during month.	Highest elevation during month.	Rainfall.		Lowest elevation during month.	Highest elevation during month.	REMARKS.
1904				**1904**				**1904**			
Dec. 7	79.96	.....	.....	Dec. 22	180.48	.....	.....	Dec. 1	.....	178.68	
Dec. 31	.....	81.02	2.94	Dec. 29	.....	180.70	2.06	Dec. 27	178.08	....	
1905				**1905**				**1905**			
Jan. 8	.....	81.94	.....	Jan. 8	.....	181.25	.....	Jan. 1	178.30	.....	
Jan. 27	81.00	.....	5.33	Jan. 31	180.55	.....	4.54	Jan. 31	.....	180.23	
Feb. 1	.....	81.02	....	Feb. 1	180.55	.....	.....	Feb. 1	180.25	.....	
Feb. 28	79.69	.....	1.62	Feb. 28	.....	180.60	1.65	Feb. 28	.....	180.60	
Mar. 8	79.17	.....	.....	Mar. 1	180.60	.....	...	Mar. 1	180.60	.....	
Mar. 20	... .	82.16	3.46	Mar. 27	.....	181.75	3.27	Mar. 28	....	181.73	
Apr. 7	.....	81.96	.....	Apr. 7	.....	181.65	.....	Apr. 7	.....	181.60	
Apr. 30	81.27	.....	2.48	Apr. 30	181.30	.....	2.67	Apr. 30	181.30	.....	
May 1	.....	81.25	.....	May 19	.....	181.32	.....	May 1	....	181.30	
May 31	81.00	.....	1.59	May 31	181.15	.....	1.32	May 31	181.15	.....	
June 12	80.25	.....	.....	June 6	181.10	.....	.....	June 6	181.10	.....	
June 23	....	81.40	5.38	June 23	.....	181.50	5.90	June 24	... .	181.45	
July 1	.....	81.02	.....	July 1	.....	181.30	.....	July 1	.....	181.25	July 12. Removed first flash-board.
July 13	79.92	.....	1.89	July 31	180.48	.....	2.10	July 31	180.33	.....	July 20. Removed second flash-board.
											July 25. Removed third flash-board.
											July 29. Removed fourth flash-board.
Aug. 3	80.31	.....	.....	Aug. 1	.....	180.50	. ....	Aug. 1	.....	180.33	Aug. 1. Removed fifth flash-board.
Aug. 13	.....	80.73	3.11	Aug. 31	180.15	.....	3.40	Aug. 31	179.10	.....	Aug. 3. Removed sixth flash-board.
											Aug. 8. Removed seventh flash-board.
											Aug. 13. Removed eighth flash-board.
											Aug. 20. Removed ninth flash-board.
											Aug. 26. Removed tenth flash-board.
Sept. 3	80.58	.....	.....	Sept. 1	180.15	.....	.....	Sept. 3	178.95	.....	Sept. 3. Set tenth, ninth, eighth & seventh flash-boards.
Sept. 5	.....	81.88	7.09	Sept. 4	.....	181.35	7.45	Sept. 24	....	180.45	Sept. 5. Set sixth, fifth and fourth flash-boards.
											Sept. 13. Set third, second and first flash-boards.
											Sept. 28. Removed first flash-board.
											Sept. 30. Set first flash-board.
Oct. 7	.....	80.83	.....	Oct. 1	.....	180.55	.....	Oct. 1	.....	180.30	Oct. 11. Opened gate.
Oct. 31	80.21	.....	1.24	Oct. 31	180.50	.....	1.43	Oct. 31	179.70	.....	
Nov. 1	80.21	.....	.....	Nov. 1	180.50	.....	.....	Nov. 1	.....	170.60	
Nov. 5	.....	80.66	2.27	Nov. 30	.....	180.60	2.17	Nov. 30	178.65	.....	
			38.40				37.96				

RECAPITULATION.

NEW SUPPLIES.

	8 inch.	6 inch.	4 inch.	2 inch.	1½ inch.	1¼ inch.	1 inch.	¾ inch.	Total.
Length, in feet, of pipe	8½	932	26½	171	47½	277½	1,481	3,307½	6,251½
Number of supplies	1	7	1	5	2	8	33	73	130
Number of stop and waste valves	.....	.....	.....	5	1	8	28	74	116
Number of screw cocks	.....	.....	.....	5	2	8	31	72	118
Number of sidewalk cocks	.....	.....	.....	.....	.....	8	32	69	109
Number of service boxes	.....	.....	.....	.....	.....	.....	.....	.....	106
Number of gates	1	4	1	.....	.....	.....	.....	.....	4
Number of gate boxes	.....	.....	.....	.....	.....	.....	.....	.....	14

MAIN PIPE.

	12 inch.	10 inch.	8 inch.	6 inch.	4 inch.	1 inch.	1¼ inch.	Total.
Length, in feet, of pipe extensions	152	2½	1,721	3,332½	394	102	113	5,817
Length, in feet, of pipe renewals	575	.....	.....	1,328	360	.....	.....	2,263
Total length, in feet, of pipe	727	2½	1,721	4,660½	754	102	113	8,080
Number of gates	2	.....	2	15	4	.....	.....	23
Number of hydrants	.....	.....	.....	.....	.....	.....	.....	28

TABLE SHOWING NUMBER OF GALLONS, BY THE MONTH, FLOWING OVER THE WATERWAY AT STONY BROOK BASIN.

	Gallons.	Number of Days.
1904.		
December	300,000	1
1905.		
January	363,300,000	29
February	600,000	2
March	1,225,300,000	21
April	1,068,100,000	30
May	133,700,000	29
June	107,200,000	10
July	300,000	1
August	.....	.....
September	250,100,000	17
October	.....	.....
November	.....	.....
	3,148,900,000	140

Total amount wasted . . . . . 3,148,900,000 gallons

Total amount of days in which water wasted 140

COMPARATIVE TRENCHING FOR THE PAST TEN YEARS.

	Extensions.	Renewals.	Supplies.	Total Feet.	Miles.
1896	17,621	26,043	17,361	61,025	11.55
1897	11,268	36,967½	16,121½	64,357	12.19
1898	11,045½	25,397	12,186	48,628½	9.21
1899	11,051½	9,427½	13,486½	33,965½	6.43
1900	9,174	412½	6,848	16,434½	3.11
1901	4,126	5,750	8,246	18,122	3.43
1902	4,392	5,941½	6,835½	17,169	3.25
1903	1,209	5,661½	5,333½	12,204	2.31
1904	1,411½	3,763	5,736½	10,911	2.06
1905	5,817	2,263	6,251½	14,331½	2.71

Pumping Station,
Cambridge Water Works,

December 1, 1905.

Edwin C. Brooks, Superintendent, Cambridge Water Works: —

Dear Sir: — I would report that the Leavitt Engine has pumped the water for the year with the exception of the Metropolitan supply. The Fort Wayne dynamo, which was repaired, and the new grates in No. 2 boiler have given good satisfaction.

The employees at the station have made all the needed repairs, which were considerable, during the time the City was using Metropolitan water.

Respectfully submitted,

WILLIAM H. BLAISDELL,
Engineer.

SUMMARY OF STATISTICS

For the Year Ending November 30, 1905.

In form recommended by the New England Water Works Association.

CAMBRIDGE WATER WORKS.

CITY OF CAMBRIDGE, COUNTY OF MIDDLESEX, STATE OF MASSACHUSETTS.

GENERAL STATISTICS.

Population by census of 1900 — 91,886.

Date of construction — 1855.

By whom owned — City of Cambridge.

Source of supply — Hobbs Brook and Stony Brook in Lincoln, Waltham and Weston, and Fresh Pond in Cambridge.

Mode of supply — Gravity from Hobbs and Stony Brooks to Fresh Pond, pumping from Fresh Pond to Payson Park Reservoirs, thence by gravity to consumers.

PUMPING STATISTICS.

1. Builders of pumping machinery — One Leavitt built by Groshon High Duty Pumping Engine Company; two Worthington; one Blake.

2. Description of fuel used — *a.* Kind — bituminous.
   b. Brand of coal — Quemahoning.
   c. Price of coal per gross ton — delivered from December 1, 1904, to November 30, 1905, $3.78 and $4.00.

3*a*. Coal consumed for the year — 3,589,600 lbs.

3*b*. Coal consumed for pumping purposes only — 3,494,195 lbs.

4. (Pounds of wood consumed) ÷ 3 = equivalent amount of coal, 500 lbs.

5. Total equivalent coal consumed for the year for pumping purposes = (3*b*) + (4), 3,494,695 lbs.

	Gallons.
6*a*. Total pumpage for the year without allowance for slip	2,773,089,640
6*b*. Total amount purchased from Metropolitan and Sewerage Board	521,070,000
6*c*. Total consumption for the year	3,294,159,640

7. Average static head against which pumps work — 158.03 feet.

8. Average dynamic head against which pumps work — 194.44 feet

9. Number of gallons pumped per pound of equivalent coal (5) — 793.

10. $\text{Duty} = \frac{\text{2,773,089,640 gals. pumped} \times 8.34\text{(lbs.)} \times 100 \times \text{dynamic head, 194.44}}{\text{Total fuel consumed, 3,494,695}} = 131{,}987{,}543$

Cost of pumping, figured on pumping station expenses, viz: $15,060.92.

11. Per million gallons pumped — $5.43.

12. Per million gallons raised one foot (dynamic) — .028.

FINANCIAL STATISTICS FOR 1904.

Ordinary receipts	$5,417 50	
From consumers	345,795 07	
Abatements	2,885 33	
Construction account	800 28	
		$354,898 18

EXPENDITURES.

Total Maintenance:		Operating Expenses.
General expenses	$22,404 95	$22,404 95
Supply expense	3,416 35	
Salaries	10,499 00	10,499 00
Salaries, pumping	7,485 72	7,485 72
Pumping, general expense	7,575 20	7,575 20
Payson Park Reservoir	1,483 09	1,483 09
Fresh Pond Reservoir, general	11,799 28	2,730 00
Fresh Pond Reservoir, grading	4,285 50	
Hobbs Brook Reservoir	1,756 71	1,756 71
Stony Brook Reservoir	2,195 21	2,195 21
Ice	484 29	
Rent	1,200 00	1,200 00
Metropolitan Water and Sewerage Board	28,458 50	
Amount carried forward	$103,043 80	$57,329 88

Amount brought forward	$103,043 80	
Interest on bonds	135,506 50	
Sinking fund	121,522 50	
Refunds and abatements	4,764 40	
		$364,837 20
Construction : —		
General	$14,541 14	
Hobbs Brook, land	1,628 10	
Hobbs Brook, general	63 22	
Hobbs Brook conduit	226,337 47	
City Solicitor	500 00	
Stony Brook main	3,819 13	
Meters	4,343 51	
		$251,232 57

Cost of works to date	$6,023,739 70
Bonded debt at date	3,646,600 00
Value of Sinking Fund at date	1,382,828 84
Average rate of interest	3½ and 4 per cent.

STATISTICS OF CONSUMPTION OF WATER.

1. Estimated total population at date — 97,426.
2. Estimated population on lines of pipe — 97,426.
3. Estimated population supplied — 97,426.

4*a*. Total pumping for year — 2,773,089,640 gallons.

4*b*. Water purchased from Metropolitan and Sewerage Board — 521,070,000 gallons.

4*c*. Total consumption for the year — 3,294,159,640 gallons.

5. Passed through meters — 1,240,569,750 gallons.
6. Percentage of consumption metered — 37.6 per cent.
7. Average daily consumption — 9,025,095 gallons.
8. Gallons per day to each inhabitant — 92.63.
9. Gallons per day to each consumer — 92.63.
10. Gallons per day to each tap — 604.
11. Cost of supplying water, per million gallons pumped, figured on total maintenance operating expenses — $20.67.
12. Total cost of supplying water, per million gallons pumped figured on total maintenance + interest on bonds.

STATISTICS RELATING TO DISTRIBUTION SYSTEM.

MAINS.

Kind of pipe — cast iron.

Sizes — From 2-inch to 40-inch.

Extended — 5,817 feet during year.

Renewed — 2,263 feet during year.

Total now in use — 126.72 miles.

Number of leaks per mile — 18.

Length of pipes 2 and 3 inches diameter — 2 miles.

Number of hydrants added during year (public) — 13.

Number of hydrants (public) now in use — 1,031.

Number of stop gates added during year — 23.

Number of stop gates smaller than 4-inch — none.

Range of pressure on mains — 45 lbs. to 55 lbs.

SERVICES.

Kind of pipe — galvanized iron.

Sizes — Three-fourth inch to two inches of galvanized wrought iron pipe. 3-inch, 4-inch, 6-inch and 8-inch of cast iron pipe.

Extended — 6,251½ feet.

Estimated total now in use — 116.34 miles.

Number of service taps added during year — 121–¾-inch to 2-inch; one 4-inch; seven 6-inch; one 8-inch.

Number now in use — 14,933.

Average length of service — 44 feet (for the year).

Average cost of service for the year — $18.38.

Number of meters added — 346.

Number now in use — 2,886.

Percentage of services metered — 19.

Respectfully submitted,

EDWIN C. BROOKS, *Superintendent.*

REPORT OF SUPERINTENDENT OF STREETS

To the Honorable, the City Council: —

Gentlemen: — In accordance with the provisions of Section 4, Chapter 25, of the Revised Ordinances, the annual report of the Superintendent of Streets is herewith respectfully submitted.

The standard appropriations of the Department are first treated in alphabetical order and are followed by the special appropriations.

BRIDGES.

Appropriation		$5,919 48
Pay-roll, including salaries of draw-tenders, labor on repairs, etc.	$3,477 32	
Repairs, exclusive of pay-roll charges: —		
First Street Bridge	318 33	
Third Street Bridge	206 46	
Sixth Street Bridge	22 81	
Walden Street Bridge	31 00	
Huron Avenue R. R. Bridge	939 04	
Huron Avenue Pipeway Bridge	902 90	
		5,897 86
Balance		$21 62

The only important work outside of ordinary repairs on the bridges in charge of this Department has been the rebuilding of all the woodwork on the two Huron Avenue Bridges. Both bridges were entirely stripped. Three-inch hard pine decking was put down on which was laid the two-inch spruce sheathing planed to an even thickness. This was done to prevent the splintering and rapid deterioration of a roughly planked surface. The sidewalks were all laid in a similar manner. The iron-work of the bridges was painted with the best quality graphite paint, the fences being painted in olive green. These two bridges are now in as good, if not better, condition than when they were first built, and will need no further repairs on them for a number of years.

The annual inspection of bridges has just been made by the City Engineer's Department and his report is herewith submitted: —

"WALDEN STREET BRIDGE.

This bridge which has been so constantly referred to in past reports is still a source of anxiety as to its safety and permanence. Many of the main members are badly corroded, and it will soon be in a dangerous condition if it is not already so. Some radical measures should be taken to

reinforce the weakened parts, or a new bridge constructed in the place of the present one. It is interesting to note how much this bridge has cost for repairs since it was built in 1892. The bridge (not including the abutments) cost in 1892, $3,634.25. Since 1897 there have been expended on this bridge for painting, repairs, renewals, etc., nearly $2,500. The head room under the bridge is so small and the number of trains passing under it, both freight and passenger, is so large that the deterioration of metal from the action of the gases from locomotives is very rapid. As a matter of economy as well as safety I recommend that this bridge be replaced at an early day with a bridge of concrete steel construction.

FIRST STREET BRIDGE ON BROAD CANAL.

At the First Street Bridge on Broad Canal several of the timbers will have to be renewed and several piles broken should be replaced.

At the other bridges little, but the ordinary, repairs will be needed."

CLEANING STREETS.

Appropriation		$31,000 00
Pay-roll	$24,993 04	
Teaming	4,383 75	
Hay	441 23	
Grain	531 96	
Straw	30 06	
Hardware, tools, etc.	166 30	
Harnesses, repairs, etc.	6 75	
Refilling machine sweeper brooms	240 00	
Machine sweeper repairs	79 83	
Rubbish barrels	125 00	
		30,997 92
Balance		$2 08

Never in the history of municipal government has there been so much interest aroused over the absolute necessity for clean streets as at the present time. Filthy streets, strewn with dust and grind of wheels, droppings, papers and decaying vegetable matter, are today taken as evidence of the unprogressiveness of a city. The cry against filth as a breeder of disease is heard in every city throughout the union. Cleanliness of cities and health of the urban residents go hand in hand. With the old methods it is impossible to reach the desired condition. Clean streets mean dustless streets, merchants happy, a public able to walk with wide-open eyes, breathing an atmosphere unladen with germs of deadly disease, and naturally to such a place population will gravitate. This

ideal condition cannot be obtained by the archaic methods in vogue when the city was still in its village swaddling clothes.

The ideal method of street cleaning is to keep the streets clean all the time, and this ideal cannot be attained by the old-fashioned method of a general spring cleaning early in the year, another general cleaning late in the fall and more or less neglect during the balance of the year. If it were possible to divide the entire city into sections, small enough so that a man could be responsible for the cleanliness of his section at all times throughout the year, we might accomplish results. One of the most essential requisites of modern pavement is cleanliness and this sort of pavement must of necessity increase each year. During the past year we have added nearly a mile and a half to our total of smoothly paved streets. These streets have been cared for during the past year in the manner above indicated, and their condition has been a constant source of satisfaction to the citizens living on and using them, as well as to the Department. The net result of all this of course is inevitable. It means a much larger appropriation must be made for this work, and it will be impossible for us to approach anywhere near the ideal condition above outlined except by the expenditure of a considerable sum of money annually.

COLLECTION OF ASHES.

Appropriation		$32,500 00
Pay-roll	$28,917 21	
Teaming	10 00	
Hay	1,554 00	
Grain	1,444 98	
Straw	129 50	
Hardware, tools, etc.	31 08	
Harnesses, repairs, etc.	182 35	
Renewals and repairs, wagons	144 26	
Horse shoeing stock	9 00	
Painters supplies	34 10	
Sundries	42 75	
		32,499 23
Balance		$0 77

The necessity of a change in the method of disposing of light refuse collected by the Ash Department has reached an acute stage. For several years we have urged the importance of providing some scientific and sanitary manner of disposing of this matter. His Honor, the Mayor, pointed it out in his inaugural address at the beginning of this year and the Committee on Highways have given the subject some consideration. No better method has yet been suggested than the establishment of one or more incinerating plants where this objectionable and disease breeding

refuse can be disposed of without menace to public health. It is a question closely allied to street cleaning, as under the present method the streets in the vicinity of the dumps used by this division of the Department are continually littered with all kinds of offensive debris. In a recent visit by the Committee on Highways to the City of Lowell an incinerator for this purpose was examined and the Committee is in correspondence with the manufacturers on the subject. It will, of course, be impossible to provide for the establishment of such plants out of the general tax levy, and I would therefore recommend that a sufficient loan be authorized to install one or more of these plants as may be decided after a thorough investigation of the whole matter.

EDGESTONES AND SIDEWALKS.

Appropriation		$30,000 00
Pay-roll	$10,777 87	
Teaming	1,395 01	
Grain	97 68	
Hardware, tools, etc.	265 05	
Bricks	3,002 87	
Edgestones	7,736 06	
Gutter stone	4,957 20	
Gravel and freight	449 04	
Artificial stone sidewalks	499 28	
Lighting	99 18	
Sundries	89 99	
Rebates on artificial stone sidewalks	627 12	
		29,996 35
Balance		$3 65

This amount has been expended this year entirely in the construction of new sidewalks. The work was all done in the early part of the year so that the estimated revenue would be received by the City Treasurer during the present financial year. On a large number of streets throughout the City brick sidewalk, edgestones and gutter have been laid. A large number of artificial stone sidewalks have been laid throughout the City. As usual there remains in the files of the Department a considerable number of uncompleted orders and petitions which have not been acted upon. There seems to be no reason why this appropriation should not be made large enough so that the property holders desiring sidewalks in front of their estates, willing to pay their proportion of the cost, would not be obliged to wait an unreasonable time before the work could be done.

MAINTENANCE — GENERAL.

Appropriation		$70,000 00

MAINTENANCE (MACADAMIZING, REPAIRS AND GENERAL EXPENSES).

Pay-roll	$43,484 12	
Teaming	1,928 44	
Hay	2,072 23	
Grain	2,419 72	
Straw	384 57	
Hardware, tools, etc.	287 79	
Harnesses, repairs, etc.	1,109 22	
Steam-rollers, repairs and supplies	2,691 50	
Stone-crushers, repairs and supplies	686 18	
Horse shoeing stock	368 68	
Field stone	3,019 10	
Crushed stone	5,949 76	
Gravel and freight	262 77	
Fuel	1,647 61	
Street signs	46 80	
Lighting	383 34	
Telephones, stationery and miscellaneous office supplies	880 46	
Renewals and repairs, stables	569 45	
New horses	81 47	
Carriage and wagon repairs	615 82	
Painters' supplies	238 33	
Stable supplies	382 81	
Sundries	485 17	
		69,995 34
Balance		$4 66

As is perhaps now very generally known, nearly all the running and operating expenses of the various divisions of the Street Department are charged to the appropriation for maintenance, so that usually more than half the amount is expended in that way leaving only the remainder for work performed on the streets.

The failure of the City Council to provide the customary amount for sidewalk repairs has compelled us in order to avoid suits for damages to attend to the most dangerous sidewalk defects and to charge the cost of the same to this appropriation. As it has been customary to do all of the resurfacing and macadamizing of streets out of this appropriation, any additional burden has necessarily decreased the amount of that kind of work which could be done.

At the close of the season the foreman of each district was requested to submit the customary list of streets in his district requiring macadamizing or resurfacing. This list is apalling in the number and importance

of the streets which ought to receive attention at once. On account of the proposed construction of sewers in many important streets during the past two or three years, nothing has been done to the surface and now that these sewers are completed the streets must be put in proper condition.

Considerable repairs are necessary on the buildings at the Hampshire Street yard, and at the Raymond Street yard another shed is badly needed and a long section of fence destroyed by fire should be rebuilt.

RESURFACING DISTRICT I.

STREET.	Labor.	Teaming.	Steam-Roller.	Crushed Stone.	Gravel.	Total.
Bay, between Massachusetts avenue and Kinnaird	$238 00	$355 00	$105 00	$595 00	$4 00	$1,297 00
Fairmont, between River and Magazine	346 00	370 00	157 50	445 00	.....	1,318 50
Fairmont avenue, between Somerset and Fairmont	76 00	95 00	52 50	202 50	.....	426 00
Hancock, between Massachusetts avenue and Kinnaird	126 00	142 50	77 00	175 00	15 00	535 50
Harding, between Cambridge and Somerville line	61 00	93 00	42 00	166 25	.....	362 25
Harvard, at junction of Main and Sixth	40 50	85 25	28 00	180 00	.....	333 75
Howard, between Kinnaird and Western avenue	150 00	320 00	49 00	571 25	45 00	1,135 25
Jay, between Kinnaird and Western avenue	90 00	189 25	63 00	356 25	.....	698 50
Jefferson, between Warren and Harding	116 00	107 50	38 50	187 50	3 00	452 50
Kinnaird, between Putnam avenue and Pleasant	560 00	966 75	397 25	1,652 50	137 00	3,713 50
Laurel, at River	.....	5 00	7 00	.....	.....	12 00
Lopez, between Pearl and Brookline	82 00	92 50	70 00	200 00	.....	444 50
Marion, between Cambridge and Jefferson	22 00	57 50	17 50	72 50	.....	169 50
Oak Circle, between Oak and Somerville line	54 00	86 00	35 00	190 00	.....	365 00
Porter, between Warren and Harding	138 00	92 50	45 50	202 50	.....	478 50
Sixth, between Broadway and Harvard	41 00	70 00	35 00	97 50	.....	243 50
Windsor, between Harvard and Market	98 00	165 00	59 50	410 00	.....	732 50
Total						$12,718 25

RESURFACING DISTRICT II.

STREET.	Labor.	Teaming.	Steam-Roller.	Crushed Stone.	Gravel.	Total.
Appleton, between Brattle and Huron avenue	$130 00	$200 75	$87 50	$331 25	$25 00	$774 50
Arrow, between Massachusetts avenue and Bow	36 25	92 50	31 50	123 75	7 00	291 00
Banks, between Mt. Auburn and Cowperthwaite	95 25	216 25	31 50	287 50	26 00	656 50
Banks, between Cowperthwaite and Flagg	15 00	28 75	10 50	77 50	2 00	133 75
Beaver, between Cowperthwaite and DeWolfe	46 00	132 00	24 50	172 50	9 00	384 00
Blake, between Massachusetts avenue and Orchard	43 00	97 13	49 00	181 25	7 00	377 38
Bolton, between Sherman and City Yard	250 25	230 50	28 00	187 50	82 50	778 75
Bow, between Massachusetts avenue and Mt. Auburn	151 25	273 88	66 50	508 75	53 50	1,053 88
Brattle, between Sparks and Channing	341 25	639 13	224 00	988 75	68 00	2,261 13
Cowperthwaite, between Banks and DeWolfe	140 00	193 75	70 00	217 50	10 00	631 25
Exeter Park, between Massachusetts avenue and end	40 00	81 25	26 25	80 00	3 00	230 50
Fayerweather, between top of hill and Huron avenue	10 00	135 00	7 00	487 50	.....	639 50
Felton, between Cambridge and Broadway	.....	.....	.....	235 00	.....	235 00
Garfield, between Massachusetts avenue and Oxford	135 50	235 88	57 75	376 25	20 00	825 38
Harvey, extension, between Cedar and Massachusetts avenue	143 38	172 00	38 50	175 00	50 00	578 88
Haskell, between Massachusetts avenue and Rindge avenue	26 50	58 75	21 00	125 00	10 00	241 25
James, between Mason and Brattle	36 75	61 25	17 50	62 50	7 00	185 00
Martin, between Massachusetts avenue and Avon	80 00	200 88	84 00	262 50	23 00	650 38
Mason, between Garden and Brattle	110 63	229 37	42 00	402 50	18 00	802 50
Mt. Auburn, between cemetery gate and railroad bridge	178 00	325 38	119 00	350 00	53 00	1,025 38
Otter, between Cowperthwaite and DeWolfe	32 00	43 25	10 50	47 50	5 00	138 25
Trowbridge, between Kirkland and Broadway	.....	.....	.....	723 75	.....	723 75
White, between Massachusetts avenue and Somerville line	67 25	112 62	77 00	153 75	9 00	419 62
Total						$14,037 53

RECAPITULATION.

Resurfacing, District I.,	$12,718 25
" " II.,	14,037 53
Patching, District I.,	1,841 37
" " II.,	2,071 01
	$30,668 16

MAINTENANCE — SALARIES.

Appropriation		$4,520 00
Salary of Superintendent	$2,000 00	
Salary of Chief Clerk	1,383 02	
Salaries of other clerks	1,099 50	
		4,482 52
Balance		$37 48

This appropriation is for the payment of the salaries of the Superintendent and the office force at City Hall. It seems to me that as there is at present employed at each yard a clerk taken from the civil service classified list that their salaries should be included in the above, and I shall so recommend to the Finace Committee when the budget is made up.

SIDEWALK REPAIRS.

Appropriation		$1,500 00
Pay-roll	$1,207 85	
Hardware, tools, etc ,	3 00	
Bricks	191 75	
Granolithic sidewalk repairs	22 00	
Freight on gravel	59 41	
		1,484 01
Balance		$15 99

In consequence of the failure to provide adequately for this work the past year, it will be necessary to spend a great deal more money than usual to take care of the many miles of sidewalks which have been allowed to get out of repair during the last few years. The removal of many large trees late in the present year places an additional burden upon this branch of our street work and should be properly provided for when the appropriations are made up. Damage suits caused by defective condition of brick sidewalks are accumulating in the City Solicitor's office and he has called my attention to the necessity of a thorough examination of all the sidewalks throughout the City. If these cases continue to appear as they have in the past six months, the amount which the City will be compelled to pay will considerably exceed the appropriation made in any single year.

SNOW REMOVAL.

Appropriation for 1904 (from the Street Railway tax)		$16,500 00
Pay-roll	$15,604 57	
Teaming	64 50	
Hay	165 59	
Grain	275 66	
Straw	58 08	
Hardware, tools, etc.	295 95	
Salt	33 75	
		16,498 10
Balance		$1 90

This appropriation was less by $2,500 than that of 1904, but the winter was unusually severe and the work required this extraordinary expenditure. For the first time the sidewalks and inner walks of all the schoolhouses of the City were cleaned by this Department, and a force of men was organized who attended to the work early in the morning before the children went to school. I have every reason to believe that this work was satisfactorily performed and the teachers and scholars of the various schools have shown their appreciation of this innovation. As in our other branches of street work much more is now expected in the removal of snow and we attempted to keep all the crossings in the City as free from snow as possible, particularly those on which there were car lines where people were sometimes obliged to stand in the middle of the street waiting for cars. The present indication is that so large an amount will not be necessary during the coming year, and as the entire amount is provided out of the street railway tax, whatever is saved in this direction can be applied to rebuilding of streets.

STREET WATERING.

Appropriation		$28,000 00
Pay-roll	$2,713 27	
Sprinkling contracts	23,742 15	
Hardware, tools, etc	9 35	
Harnesses, repairs, etc.	11 21	
Watering cart repairs	1,384 74	
Standpipe repairs	123 28	
Fuel	16 00	
		$28,000 00

This division of the Department has had to contend against the driest season known for many years, and while the usual provision was made for the ordinary work of the Department, it was not sufficient to properly do the work after the 15th of October, the usual time of discontinuing the regular force. The work of the street watering contractors has on the whole been very well done. Comparatively few complaints have been received during the regular season, although most of the routes are longer than they should be. The addition of two carts during the coming year would very much increase the efficiency of the service. The usual repairs and repainting of carts are now in progress and will be completed in season to begin work early in the spring.

REBUILDING STREETS.

Appropriation (from Street Railway tax)		$52,414 72
Pay-roll	$18,355 25	
Teaming	1,440 63	
Hay, grain and straw	439 32	
Vitrified paving blocks	4,843 05	
Lighting	223 77	
Cement	2,363 40	
Concrete stone and field stone	1,495 06	
Granite blocks, edgestone and flagging	2,550 73	
Gravel and freight	247 64	
Hardware, tools, etc.	247 78	
Pitch and sundries	496 94	
Bithulithic pavement	16,399 35	
Renewing asphalt	342 00	
Crushed stone	2,949 36	
		52,394 28
Balance		$20 44

This appropriation represents, with the amount expended for Snow Removal treated on a previous page, the amount received from the street railway franchise tax, and it has been used, as was the evident intent of the act of the Legislature, in the construction and repair of streets through which street railway tracks run.

Brookline Street, from Erie Street to its junction with Putnam Avenue, has been paved with vitrified brick, with the exception of one length of track which was left to allow the railway company to put in new castings at that point. As the castings did not arrive until after frost had entered the ground, this small piece was left for completion next year. Peabody Street, from Harvard Square to Cambridge Street, has been paved with vitrified brick. The sidewalk on the westerly side abutting on the small common was defined and new edgestone set there. On Massachusetts Avenue, between Harvard Bridge and the Boston & Albany railroad track, there is a very long curve. Heavy cars run at high speed over this track and it was found that the concrete base upon which the vitrified brick pavement was laid in 1901 had crumbled and the bricks next to the tracks had fallen in. A somewhat extensive investigation was made by the engineers of the Boston Elevated Railway Co., the City Engineer and the Superintendent of Streets with the result that perhaps might have been expected. The officials of the City believe that the disintegration of the pavement at that point was caused by defective construction of the railway track. To remedy the matter we have laid a heavier and larger sized block next to the rail and have poured the joints with elastic road pitch so that the vibration of the tracks will not cause

the trouble which we have had there. The result of this experiment has not been fully determined and we expect to go into the matter in the early spring.

The most extensive piece of work done under this appropriation was the laying of bitulithic pavement on Cambridge Street from Inman Square to Quincy Street. This street had been in very bad condition ever since the large sewer was built through it some years ago, and petitions representing practically all of the tax-payers on that section of the street were presented to the City Government asking that a smooth pavement be laid there. There appears to be but one pavement which fulfills all the requirements for a street of this character. The amount of traffic while considerable is hardly sufficient to warrant stone or brick pavement, and the residential character of the street would preclude the use of either on account of noise. The work of excavating, preparing the base, spreading the foundation stone, rolling, etc., has all been done by employees in the Department, and the top surface was laid under the contract with a bond guaranteeing it for five years. The street as completed presents a fine appearance, traffic over it is easy and pleasant, the character of the surface is such that there is no slip in almost any kind of weather, and it can be kept perfectly clean throughout the entire year. We have sought to avoid any chance of disintegration of the pavement along the railway tracks by laying a course of paving blocks, technically called stretchers, on each side of every rail. These blocks were selected as to shape and quality, have been laid on Portland cement concrete and thoroughly grouted with Portland cement grout. We were unable to complete a small section of the street, from the car track to the curb on the northerly side of the street, and between Trowbridge Street and Quincy Street, amounting to about 1,600 square yards. This should be one of the first things done in the spring and an estimate of the expense will be included in the budget when presented to the City Government.

When the budget was made up it was intended to repave Main Street, between Lafayette Square and the junction of Broadway, but on account of the probability of Main Street being torn up in the near future for the building of the subway, the money was expended on Peabody Street as above stated.

STREET CONSTRUCTION.

Appropriation		$57,658 89
Pay-roll	$17,635 27	
Teaming	2,890 63	
Amounts carried forward	$20,525 90	$57,658 89

Amounts brought forward	$20,525 90	$57,658 89
Hay	483 07	
Hardware, tools, etc.	164 07	
Edgestone	3,948 93	
Cement	786 15	
Freight on gravel, etc.	697 62	
Crushed stone	731 80	
Field stone	222 60	
Granite paving blocks	15,321 05	
Vitrified paving blocks	4,640 52	
Flagging	150 07	
Pitch	68 20	
Lighting	213 71	
Gutter stone	699 05	
Concrete stone	542 90	
Bitulithic surface	6,312 38	
Sundries	43 44	
		55,551 46
Balance		$2,107 43

As this appropriation was raised by loan, it has been expended wholly for new or permanent construction. Bolton Street was laid out and widened from Sherman Street to the Raymond Street yard of the Street Department, edgestones were set and gutters laid on both sides of the street for its entire length and a heavy macadam laid there. Harvey Street was extended from Cedar Street through to Massachusetts Avenue. Oak Circle was laid out from Oak Street to the Somerville line. On both of these streets edgestones were set, gutters laid and they were macadamized in a satisfactory manner. Third Street, from Binney Street to the bridge over the Broad canal; Sidney Street, from Massachusetts Avenue to Franklin Street; Warren Street, from Cambridge Street to the Somerville line; Lambert Street, from Cambridge Street to Gore Street; Broadway, on the northerly side between Clark and Windsor Streets, were all paved with first-class granite blocks. On all of these last named streets, the traffic is exceedingly heavy and for a long time the necessity of permanent construction has existed. The widening of Laurel Street, in 1904, made it necessary to relay the vitrified brick on River Street at that point, and the balance carried over from the previous year's loan for that work was included in this appropriation.

Putnam Avenue, from Brookline Street to the easterly side of Magazine Street, was paved with vitrified brick. At the corner of Brookline Street, a short space is left for the castings of the railway company mentioned on a preceding page and will be part of the work of completing this corner early in the spring.

For many years the widening of Concord Avenue, between Arsenal

Square and Huron Avenue, has been urged. For various reasons it had been put off from year to year until it became imperatively necessary that something should be done. Accordingly the proposition was made that two feet be taken off each sidewalk, the trees removed, and bitulithic pavement be laid there. At a largely attended hearing given by the Park Department on the question of removal of the trees required under this plan, so strong a remonstrance was developed that the sidewalks have been left at the customary width and only such trees removed as interfered with that width. The railway company removed the old-fashioned tram top rails and laid in their place a modern half grooved rail over which it is possible to drive with ease and safety. Bitulithic pavement has been laid on this street between the points mentioned in the same manner as was done on Cambridge Street previously spoken of in this report. In addition to all the advantages heretofore enumerated for this smooth pavement, to those who are familiar with former conditions on Concord Avenue, the present appearance of width on this part of Concord Avenue is especially striking.

SUBWAY UNDER FITCHBURG RAILROAD TRACKS, NORTH CAMBRIDGE.

Appropriation		$6,500 00
Pay-roll	$132 00	
Contract, James H. Fannon	750 00	
		882 00
Balance		$5,618 00

Although the appropriation for completing the subway under the Fitchburg railroad tracks in the line of Raymond Street was made early in the year, the necessary negotiations with the railroad company took so much time that we were unable to begin work there until very late in the season. The City Engineer prepared new plans and specifications for the work and has had charge of its construction. The contract was made with James H. Fannon, of Somerville, and the work is now nearly completed. No allowance was made in the early plans and estimates for grading approaches to the subway on each side of the track and some provision must be made for this work which ought to be done as soon as the ground is in proper condition.

ACCEPTED STREETS.

The following table shows streets laid out and accepted from Dec. 1, 1904, to Dec. 1, 1905, giving location, length and width of street, date of acceptance and plan: —

STREETS LAID OUT AND ACCEPTED DECEMBER 1, 1904, TO DECEMBER 1, 1905.

Location of Street.						Plan.	
Name.	From	To	Length in Feet.	Width in Feet.	Date of Acceptance.	Made by	Date.
Bolton street	Sherman street easterly	City land	457.0	30	Apr. 15, 1905	City Engineer	Oct. 25, 1899
Dodge street	Western avenue	Grigg street	217.8	30	May 3, 1905	W. A. Mason & Son	July 20, 1904
Exeter park	Massachusetts avenue	Easterly	262.5	35	Dec. 22, 1904	W. A. Mason & Son	Nov. 14, 1904
Fairview avenue	Oxford avenue	Belmont line	207.0	50	May 3, 1905	E. F. Bowker	May 13, 1904
Gurney street	Fayerweather street	Huron avenue	585.0	40	Nov. 17, 1905	Joseph H. Curtis	Apr. 14, 1904
Harvey street	Cedar street	Massachusetts avenue	125.0	40	Dec. 31, 1904	City Engineer	Nov. 4, 1904
Oak circle	Oak street	City line	349.5	30	Dec. 31, 1904	City Engineer	Oct. 8, 1904
Oxford avenue	Fairview avenue	Belmont line	285.0	40	May 3, 1905	E. F. Bowker	May 13, 1904

Total length of accepted streets December 1, 1904, 97.175 miles.
Total length of streets accepted from December 1, 1904, to December 1, 1905, 2,488.8 feet or .471 miles.
Total length of accepted streets December 1, 1905, 97.646 miles.

PERMITS ISSUED.

The issuing of permits for board walks, sale of goods on sidewalks, opening and obstructing streets and sidewalks, building and repairing of granolithic sidewalks and other purposes has grown to be an important feature in the work of the office.

OPENING PERMITS.

To Whom Issued.	Number Issued.
Boston Elevated R. R.	51
Boston & Maine R. R.	5
Cambridge Gas Light Co.	351
Cambridge Electric Light Co.	119
Charles River Basin Commission	1
Electrical Department	1
New England Telephone & Telegraph Co.	31
Sewer Department	43
Water Department	11
Drain layers	216
Miscellaneous	10
Total issued	839

OBSTRUCTION PERMITS.

Tar kettle contractors	53
Miscellaneous	296
Total issued	349

ARTIFICIAL STONE SIDEWALKS.

Simpson Brothers Corp.	17
Warren Brothers Co.	6
George H. Lowe	1
Total issued	24

SELLING GOODS ON SIDEWALKS.

Number of permits issued	62

BOARD WALKS.

Number of permits issued	69

PRIVATE STEAM ROLLER PASSING THROUGH PUBLIC STREETS.

Number of permits issued	6

RECOMMENDATIONS.

1. The completion of the bitulithic pavement on the northerly side of Cambridge Street, between Trowbridge Street and Quincy Street previously mentioned in this report.

2. The extension of this bitulithic pavement on Cambridge Street from Quincy Street to its junction with Peabody Street.

3. The laying of bitulithic pavement from the point where it now ends in Arsenal Square to Massachusetts Avenue. This portion of Garden Street is and has been for a number of years in very bad condition. The presence of the Washington Elm, the Soldiers' Monument and other places of historic interest on this section of Garden Street draws a large number of people there during the year, and the proposed construction of a memorial gate by the Daughters of the Revoluton will be an additional attraction there. The two main thoroughfares from Belmont converge at Arsenal Square and all the traffic goes through this part of Garden Street. For all of these reasons a smooth pavement of a permanent and pleasing character should be laid on this street.

4. The laying of vitrified brick pavement on Putnam Avenue from Magazine Street to River Street and the completion of the unfinished work at the corner of Putnam Avenue and Brookline Street. Vitrified brick pavement has been laid on Pearl Street, Brookline Street, River Street and Putnam Avenue as far as Magazine Street. By the completion of the work above recommended the streets through which there are railway tracks in Wards 6 and 7, except the lower end of Brookline Street, will be paved with vitrified brick.

5. The paving of Hampshire Street with first-class granite blocks from Prospect Street to its junction with Broadway. This is another of our main arteries taking the travel through the westerly end of Cambridge Street and Beacon Street, in Somerville, and the traffic through this manufacturing district is exceedingly heavy. In 1904 we paved this street from Inman Square to Prospect Street and the section of the street now recommended has been left somewhat uncared for during the past two years in the expectation that this permanent form of construction will be laid there during the coming season.

6. The resurfacing of Broadway, from Windsor Street to Memorial Hall, and Mount Auburn Street, from Brattle Square to Mount Auburn gate. Nothing of any importance has been done on this section of Broadway since 1899, and the part of Mount Auburn Street last mentioned was macadamized when the tracks were laid there in 1894.

It will be noted that all the above-named streets are main thoroughfares through which there are street railway lines and as it was the

evident intention of the legislature in providing for the distribution of the street railway tax for permanent construction or repairs that the work should be done on the streets through which tracks are laid, I would recommend that the amount received next year from that source, $78,117.30, which it may be said in passing is $10,000 more than that of last year, be applied so far as possible on the above streets.

7. The paving with first-class granite blocks of Albany Street, from Main Street to Portland Street, and Portland Street, from Main Street to Albany Street. The recent development of property and the building of several large manufacturing establishments on Albany Street fixes the character of the pavement required there. There is no doubt that some of the heaviest traffic throughout the City will be carried over these streets from now on. They are at present in very bad condition and the manufacturing interests there are justified in the loud and persistent demands which they have made during the past year for a permanent pavement on these streets.

8. The paving with first-class granite blocks of Charles Street, from Third Street to First Street. During the past year we have completed the paving of Third Street from the bridge over the Broad Canal to Charles Street. First Street is already paved with granite blocks and this section of Charles Street is the connecting link between the two streets named through which a large amount of trucking passes from the important stables in that district.

9. That provision be made for relaying old and building new street crossings throughout the City. During the past year no provision whatever was made for this work and there are a great many old-fashioned cobble stone crossings which should be taken out and rebuilt in a more modern way with vitrified brick, and there are a number of petitions on file in the Mayor's office for new crossings which should be provided for.

10. A substantial increase in the appropriation for macadamizing, grading and surfacing streets. Mention has already been made of the large number of streets requiring repairs of this character. This is notably true of the residential streets in Wards 1 and 2 which should receive attention very early in the season.

EQUIPMENT.

The rolling stock, so to speak, of the Department, namely the ash carts, watering carts, etc., are all in excellent condition, but we are sadly in need of horses. During the year 1904, we purchased seven, but the prices asked for good draught horses during the past year have been so

high that it was felt unwise to do anything in that direction. The work of the Collection of Ashes Division of the Department is particularly heavy and many of the horses are old and unfit for the work. The experience of other cities has shown that it is possible to buy in carload lots in the western market good horses at a reasonable price and I would therefore suggest that the City Veterinary or some person equally competent should be authorized to investigate this subject and to purchase such new horses as are required for this Department and that those old and worn out horses before mentioned be sent to the auction rooms.

I reprint from the report of 1904 a recommendation which has been before several City Governments during the past several years in relation to a stone ledge.

"PURCHASE OF A STONE LEDGE.

The best interests of the City demand the purchase of a stone ledge. At the beginning of the year there was included in the annual estimates $12,000 for the purchase of a ledge, but the City Government decided against the proposition. The streets of Newton and Brookline to which attention has often been called are of a high standard because both municipalities own a ledge of suitable stone. The mecadamized streets of these places having a uniform degree of hardness wear uniformly even, without cradle-holes caused by the presence of soft stone placed alongside harder material. Soft stones being unable to stand the wear as well as the harder material crumble away and cradle-holes are the result. This condition of affairs can only be remedied by the purchase of a suitable ledge. The investment will unquestionably prove profitable and it is strongly urged that the City Council give the matter early and and serious attention."

APPROACH TO THE NEW CAMBRIDGE BRIDGE.

Practically all the important construction work of the Department was done early in the season in order that the force might be available for the construction of the streets necessary at the approach to the new Cambridge Bridge. Accordingly, under the direction of the Mayor and the City Engineer, the entire paving force of the Department was employed in paving with granite blocks the extension of First Street through to Main Street and the paving of Main Street from its junction with Broadway as far as could be done this year. A large amount of work was done there, a full report of which is made by the City Engineer to His Honor, the Mayor, and complete details are therefore omitted here.

CLAY PIT AT RAYMOND STREET YARD.

During the past two or three years great complaint has been made on account of the existence of a large body of water in the clay pit at the rear of the Raymond Street stable. During the past year the Board of Health had several hearings on the subject. The water had risen so high that it encroached upon surrounding property, and had become exceedingly offensive. At the request of the Board of Health, the Superintendent of Streets consulted with the officers of the New England Brick Company and an agreement was finally reached whereby they constructed a drain under the surface of Sherman Street into a very much larger pit on the westerly side of the street. The water was reduced ten feet below the previously existing level and a boom was constructed across the dump used by the Street Department so that no offensive matter could float over to the shores of the yards abutting on the other side of the pit. This action has not only been of benefit to the immediate neighborhood, but it will enable the Department to operate its stone crusher without difficulty, whereas the crusher pit was formerly full of water and required constant pumping all the time.

INVENTORY OF REAL AND PERSONAL PROPERTY.

REAL ESTATE

Location.	Buildings.	Erection of Buildings.	Purchase of Land.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.
Raymond St.....	City Yard and Stable, stable, sheds, scales, etc.	1897	1896	272,670	$27,000	$27,000
Hampshire St...	City Stable, sheds and sca'es, including old police station.....	1885	.....	72,661	30,000	16,000
E. S. Norfolk St.	Yard and pound.....	....	.....	39,600	12,000	.....
River St.	Yard and wharf.....	....	.....	.....	.....	17,000*
Acton, Mass.....	Land, gravel bank.....	.....	1896	41,546	7,000	.....
					$76,000	$60,000

* Includes valuation of land.

Total valuation of real estate..... ..... $136,000 00

Amount carried forward $136,000 00

Amount brought forward		$136,000 00

PERSONAL PROPERTY.

65 horses	$6,000 00	
51 watering carts	12,500 00	
48 single and double carts	4,200 00	
86 sets harnesses	2,000 00	
Miscellaneous buggies, sleighs, pungs, plows, wagons, etc.	2,500 00	
4 bicycles	120 00	
4 steam-rollers	7,000 00	
1 two-horse section-roller	125 00	
Miscellaneous tools, road machines, pick-up sweepers, scrapers, brooms, waste barrels, push carts, etc.	8,200 00	
Stone-crushing plant, Raymond Street	5,500 00	
Stone-crushing plant, Hampshire Street	6,000 00	
8 Shadbolt ash carts	2,500 00	
2 Watson carts	350 00	
Miscellaneous lumber, iron, oils, etc.	1,500 00	
88 feet straight edgestone	51 04	
19 feet circle edgestone	14 44	
150,000 granite paving blocks, seconds	3,750 00	
500 square yards gutter stone	250 00	
2,500 sidewalk bricks	32 50	
800 tons crushed stone	788 00	
500 tons field stone	375 00	
12 tons coal	57 84	
41,327 vitrified bricks	1,219 15	
10 barrels Rosendale Cement	10 00	
73 bags Portland Cement	24 27	
1½ bbls. Road Pitch	8 30	
		$65,075 54
		$201,075 54

In this year of activity, unprecedented in the history of the Department, it has been exceedingly gratifying to realize that the helpful oversight, encouragement and support of His Honor, the Mayor, could be at all times relied upon, and my indebtedness to him for his earnest interest in all matters affecting the Department cannot be measured by set phrases.

The harmonious co-operation of the Committee on Highways has lessened many difficulties and their assistance and counsel are gratefully appreciated.

My acknowledgements are extended to the members of the City Council and to the officials of the City for their courtesy and consideration.

The value of the work performed by the employees in general is recognized and most heartily commended.

Respectfully submitted,

GEORGE M. CLUKAS,

Superintendent of Streets.

REPORT OF THE COMMISSIONER OF BOSTON AND CAMBRIDGE BRIDGES

To the Honorable, the City Council:—

Gentlemen:—In accordance with the provisions of Section 3, Chapter 5, of the Revised Ordinances, the undersigned respectfully submits his report as Bridge Commissioner for the year ending November 30, 1905.

This commission is established under Section 14, Chapter 467, of the Acts of 1898. This act places all bridges and draws between the two cities in charge of the commission "to support, manage and keep in repair and to authorize exclusively the placing of poles, wires and other structures upon them." The expense of maintenance is borne equally by the City of Boston and the City of Cambridge. The bridges under the charge of this commission at the beginning of the year were as follows: Craigie, Prison Point, West Boston, Harvard, Brookline Street, River Street, Western Avenue and North Harvard Street.

On the first of July, this year, Craigie Bridge was closed to public travel and the maintenance and operation of the temporary bridge built in its place passed into the hands of the Charles River Basin Commission, all except one of the employees on that bridge resigning from the employ of this Commission and accepting positions under the Charles River Basin Commission.

On October 19th, Brookline Street Bridge was closed to public travel and the two draw-tenders were assigned to other bridges in the Department. The new Cambridge Bridge will probably be opened to travel early in the coming year and, as it is a drawless bridge, the draw-tenders will be assigned to the other bridges in the Department and a schedule adopted which will result in the establishment of eight-hour shifts on all the bridges in the control of this Commission.

Boylston Street Bridge is at the present time in very poor condition, but the Commission have not felt it wise to expend any considerable amount of money there, because there is every reason to suppose that a new structure will be erected there in the very near future. A legislative act authorizing the construction of the bridge has already been passed.

The most important work done by the commission this year has been on Harvard Bridge. The asphalt sidewalks which were practically worn out have been removed and three-inch hard pine plank sidewalks have

been built in their place. There still remains unfinished two or three hundred feet which will be all built before the end of the year. The fences on both sides have been painted and this, together with the excellent sidewalks have greatly improved the general appearance of the bridge.

At River Street Bridge we have installed two electric motors for raising the draws, and when the West Boston temporary bridge is abandoned we shall use the remaining motors there for the same purpose on Western Avenue Bridge. The electric power for operating the draws is furnished without cost to the City by the Boston Elevated Railway Co., and before the beginning of next year we shall have arrangements completed so that every bridge over which they have car tracks, will be operated by power furnished by the company, at no expense to the City.

The following tables show the amounts expended by the City of Cambridge for maintenance and repairs of each bridge, the number of times the draws have been opened and the number of vessels which have passed through each bridge, and the amount received and turned into the City Treasury as revenue.

Respectfully submitted,

GEO. M. CLUKAS,
Bridge Commissioner.

CLASSIFICATION OF EXPENDITURES BY CITY OF CAMBRIDGE.

Object of Expenditures. Dec. 1, 1904 — Nov. 30, 1905.	Boylston Street.	Brookline Street.	Canal or Craigie.	Harvard.	Prison Point.	River Street.	West Boston.	Western Avenue.	General Account.	Totals.
Draw Tenders*	$514 00	$670 00	$1,264 75	$1,747 12	$1,516 00	$688 36	$1,815 57	$707 98	.....	$8,923 78
Electric Light	.....	161 16	204 45	1,170 00	.....	48 00	612 30	48 00	.....	2,243 91
Lumber	91 40	151 71	29 87	631 69	54	340 70	.....	236 76	.....	1,482 67
General Repairs	85 80	60 74	78 12	97 38	9 00	266 68	.....	178 48	.....	776 20
Cleaning Bridges	.....	.....	113 10	90 12	.....	.....	259 25	.....	.....	462 47
Sundries	.....	.....	49 15	139 67	17 66	3 13	27 39	35	.....	237 35
Fuel	3 20	.....	119 57	23 20	.....	5 60	15 20	.....	.....	166 77
Tools and Hardware	6 75	6 39	36 05	49 83	4 71	14 67	3 72	15 92	.....	138 04
Electric Current	.....	.....	.....	120 00	.....	.....	.....	.....	.....	120 00
Electric Repairs	.....	.....	.....	76 02	.....	.....	.....	.....	.....	76 02
Paint and Painting	15 34	35	.....	8 72	.....	20 61	.....	23 05	.....	68 07
Iron Work	2 14	30	19 50	.....	.....	13 96	6 98	15 65	.....	58 53
Water Rates	.....	.....	4 00	.....	.....	.....	.....	.....	.....	4 00
Commissioner	.....	.....	.....	.....	.....	.....	.....	.....	$700 00	700 00
Secretary	.....	.....	.....	.....	.....	.....	.....	.....	250 00	250 00
Printing	.....	.....	.....	.....	.....	.....	.....	.....	66 68	66 68
Furniture Commissioner's Office	.....	.....	.....	.....	.....	.....	.....	.....	57 25	57 25
Stationery and Postage	.....	.....	.....	.....	.....	.....	.....	.....	16 87	16 87
Travelling Expense	.....	.....	.....	.....	.....	.....	.....	.....	10 00	10 00
Totals	$718 63	$1,050 65	$1,918 56	$4,153 75	$1,547 91	$1,401 71	$2,740 41	$1,226 19	$1,100 80	$15,858 61
* Extra help during vacations of Draw Tenders included in above	$14 00	$28 00	.....	$56 00	$56 00	$28 00	$56 00	$28 00	.....	$266 00

Salaries of Commissioners, Secretary and Draw Tenders,	$9,873 78
General Expenses	5,984 83
Total	$15,858 61

NUMBER OF TIMES THE DRAWS IN THE BOSTON AND CAMBRIDGE BRIDGES HAVE BEEN OPENED AND THE NUMBER OF VESSELS WHICH HAVE PASSED THROUGH FOR THE YEAR BEGINNING DECEMBER 1, 1904, AND ENDING NOVEMBER 30, 1905.

DATE.	BOYLSTON STREET.		BROOKLINE STREET.		CRAIGIE'S.		HARVARD.		PRISON POINT.		RIVER STREET.		WEST BOSTON.		WESTERN AVENUE.	
December 1, 1904. November 30, 1905.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.	No. of Draw Openings.	No. of Vessels Passing Through.
December, 1904	0	0	0	0	201	370	74	80	31	35	0	0	106	231	0	0
January, 1905	8	15	10	15	116	202	56	35	17	31	12	17	30	59	12	19
February, "	0	0	0	0	56	96	0	0	26	46	0	0	0	0	0	0
March, "	4	7	6	10	149	233	18	12	23	35	6	10	24	40	4	7
April, "	12	18	21	34	247	375	53	34	20	45	20	34	275	561	12	18
May, "	10	16	10	17	247	405	29	19	26	85	10	17	32	50	10	16
June, "	20	32	26	46	293	497	72	50	19	39	28	48	47	75	20	33
July, "	15	23	17	24	357	619	43	22	19	43	17	26	108	199	15	23
August, "	8	12	8	12	0	0	30	21	36	110	8	12	128	313	8	12
September, "	12	19	28	36	0	0	59	40	26	60	16	25	165	380	12	19
October, "	12	18	0	0	0	0	94	63	43	111	31	52	327	679	12	18
November, "	16	25	0	0	0	0	87	146	34	70	24	40	123	211	16	25
Totals	117	185	126	194	1,666	797	615	522	325	730	172	281	1,365	2,798	121	190

BOSTON AND CAMBRIDGE BRIDGES.

CITY OF CAMBRIDGE.

December 1, 1904. REVENUE. November 30, 1905

Date.	L. B. and Page	Items.	Bridge.	Total.	One-half City of Boston.	One-half City of Cambridge
1905						
Jan. 13	6-119	J. Freedman, house rent	Craigie	$40 00	$20 00	$20 00
		W. B. Hoitt, sale of old wood	W. Boston	9 75	4 87	4 88
Mar. 4	6-134	J. Freedman, house rent	Craigie	12 65	6 32	6 33
		Boston Elevated Ry. Co	Western Avenue.	33 35	16 68	16 67
		J. Freedman, house rent	Craigie	20 00	10 00	10 00
May 11	6-158	J. Freedman, old building	"	25 00	12 50	12 50
		Yacht "Gleam," wharfage	"	40 00	20 00	20 00
		Sale of old house at Craigie Bridge	Craigie	150 00	75 00	75 00
Sept. 7	6-185	Thomas Butler, old iron	"	4 05	2 03	2 02
		P. A. Berkeley, Jr., old wood	River Street	4 00	2 00	2 00
		Holbrook, Cabot & Rollins Corporation, old engine and boiler.	Craigie	50 00	25 00	25 00
		Charles River Basin Commission, old tools	Craigie	200 00	100 00	100 00
		Thomas J. Murphy, old wood	River Street	2 00	1 00	1 00
Oct 16	6-198	Gabriel Farrell, wharfage	W. Boston	25 00	12 50	12 50
		W. B. Hoitt, old wood	"	60 00	30 00	30 00
		W. P. Nickerson, old wood	Harvard	2 00	1 00	1 00
		Samuel Myers, old wood	"	1 00	50	50
		Robert Holden, old wood	"	1 00	50	50
		M. Fallon, old wood	"	1 00	50	50
		Wm. Dudley, old wood	"	1 00	50	50
Nov. 29	6-225	David Murphy, old wood	"	1 00	50	50
		Jere Downey, old wood	"	1 00	50	50
		Mr. E. M. Smith, old wood	"	1 00	50	50
		Fay Bros., scrap iron	River Street	88 90	44 45	44 45
		J. E. Eames, old wood	Harvard	1 00	50	50
		Boston Consolidated Gas Co., Cr. on Elec. Lt	Brookline Street.	7 70	3 85	3 85
		W. B. Hoitt, old wood	Harvard	17 25	8 62	8 63
		Boston Athletic Ass'n, dockage, etc	W. Boston	50 00	25 00	25 00
		Mr. Harris, old wood	Harvard	2 00	1 00	1 00
		John Coyne, old wood	"	1 00	50	50
		G. A. A. Pevey, old wood	"	1 00	50	50
		J. C. Doherty, old wood	"	13 00	6 50	6 50
				$866 65	$433 32	$433 33

REPORT OF THE CHIEF OF POLICE

To the Honorable, the Mayor, and the City Council of the City of Cambridge: —

GENTLEMEN: — In compliance with the City Ordinance, I have the honor to present the annual report of the work of the Police Department to November 30, 1905.

The whole number of arrests for the year has been three thousand two hundred and five (3,205) against three thousand two hundred and forty-six (3,246) last year, a decrease of forty-one (41).

Males	2,990	Adults	2,370
Females	215	Minors	835

The offences for which arrests have been made are as follows: —

Adultery	3	Gaming, or present at	69
Assault and battery	193	Gaming on Lord's day	41
Assault, felonious	7	Giving false alarm of fire	1
Assault, indecent	6	Illegal voting	7
Assault with intent to rob	1	Idle and disorderly	7
Assault with dangerous weapon	5	Insane	9
Attempt to rape	1	Illegal transportation	4
Attempt to break and enter	5	Illegally boarding infants	5
Aiding to vote illegally	3	Illegal sale of liquor	1
Beating boarding house	1	Illegal use of transfer checks	2
Bastardy	13	Keeping unlicensed dogs	11
Breaking and entering	67	Keeping dangerous dog	2
Bigamy	1	Keeping potash tablets for sale	2
Buying junk from minors	5	Liquor nuisance	12
Breaking glass	11	Larceny	298
Committing nuisance	2	Larceny in a building	25
Capias	55	Lewd and lacivious	2
Common drunkard	33	Larceny from person	10
Contempt of court	1	Loitering	22
Conveying leased property	3	Malicious mischief	17
Conveying mortgaged property	1	Malicious injury to real estate	11
Cruelty to animals	5	Non-support	93
Carnal abuse	10	Neglected children	20
Default warrant	8	Obstructing street car	7
Deserter from navy	1	Obstructing railroad train	1
Delirium tremens	1	Peddling without license	24
Disturbing the public peace	302	Playing cards on the Lord's day	5
Disturbing religious meeting	1	Profanity	1
Drunkenness	1,359	Perjury	6
Defacing building	3	Receiving stolen property	10
Disturbance on a street car	19	Rape	2
Discharging firearms in City limits	2	Signing false certificate	27
Embezzlement	1	Setting fire	18
Escaped prisoners	7	Safe keeping	26
Evading car fare	21	Stubborn children	13
Forgery	3	Stealing a ride	4
Fornication	2	Suspicious persons	21

Surrendered by bail	1	Violating liquor law	3
Stoning railroad train	2	Violation of milk law	7
Threatening	3	Violating terms of probation	13
Truants	4	Violating Park rules	10
Trespass	22	Violating rules Board of Health	10
Violating food law	12	Violating election law	1
Vagrants	10	Violating automobile law	19
Violating City ordinances	60	Walking on railroad track	30

Whole number of lodgers, 269.

Males	266	Minors	1
Females	3	White	266
Adults	268	Colored	3

MISCELLANEOUS BUSINESS.

Accidents	162	Defective wires	63
Buildings found open and secured	200	Defective streets and sidewalks	1,159
Cases investigated	2,094	Disturbances suppressed	158
Dangerous buildings	6	Dogs killed	84
Dangerous chimneys	3	Fire alarms given	17
Dead bodies found	21	Fires extinguished without alarms	47
Defective catch basins	95	Intoxicated persons helped home	1
Defective drains and vaults	1	Lost children restored	315
Defective fire alarms and clocks	1	Sick and injured persons assisted	108
Defective gas pipes	16	Stray teams put up	21
Defective water pipes	134	Street obstructions removed	8
Defective hydrants	21	Water running to waste	29
Defective lamps	3,404		

NATIVITY OF PRISONERS.

United States	1,964	Armenia	2
Ireland	674	France	3
British Provinces	262	Holland	1
England	68	Turkey	11
Sweden	54	Austria	1
Italy	26	West Indies	4
Scotland	32	Poland	15
Germany	7	Portugal	14
Greece	6	China	1
Norway	3	Spain	1
Russia	56		

OCCUPATION OF PRISONERS.

Agents	30	Coachmen	6
Bakers	26	Clerks	75
Barbers	11	Cabinetmakers	8
Brass finishers	5	Cigarmakers	1
Blacksmiths	24	Druggists	3
Butchers	17	Domestics	46
Boilermakers	15	Electricians	12
Bookbinders	9	Expressmen	11
Bookkeepers	3	Engineers	8
Bartenders	4	Farmers	16
Brokers	3	Firemen	16
Cooks	11	Gardeners	22
Coopers	10	Glass workers	11
Carpenters	77	Hostlers	14
Confectioners	9	Harnessmakers	4

Housekeepers	156	Peddlers	77
Ironworkers	16	Roofers	7
Junk dealers	10	Rubber workers	37
Janitors	10	Railroad men	22
Laborers	917	Sailors	12
Masons	45	Steamfitters	9
Milkmen	6	Stonecutters	10
Moulders	14	Storekeepers	42
Machinists	41	Students	22
No occupation	616	Shoemakers	21
Physicians	3	Salesmen	21
Piano workers	6	Tailors	27
Polishers	8	Tinsmiths	9
Plumbers	32	Stewards	3
Printers	52	Waiters	25
Painters	85	Chauffeurs	6

SIGNAL SYSTEMS.

In the three signal districts during the past year there have been: —

Duty calls by officers	349,531
Telephone calls	22,942
Wagon calls	1,417
Miles run	2,484
To fires	7
Sick and injured persons carried to hospital	12
Sick and injured persons carried home	9
Other runs	23

AMBULANCE.

The ambulance has been called to three hundred and thirty-three (333) accidents, and sixty-two (62) removals.

CITY PROPERTY IN USE BY POLICE DEPARTMENT.

150	badges	$100 00	3	patrol wagons	$1,000 00
125	belts	143 75	120	revolvers	480 00
125	short billies	62 50		Ropes and stakes	6 00
6	bedsteads	36 00	3	robes, carriage	10 00
	Bedding and blankets	50 00	1	rogues' gallery	150 00
1	buggy	75 00	2	safes	100 00
5	clocks	25 00	8	spittoons	2 00
2	bureaus	3 00	1	sleigh	25 00
75	chairs	95 00	1	stove	8 00
150	copies police rules	30 00	2	straps and weights	1 00
14	desks	260 00	1	telephone line	300 00
1	easy chair, Matron's	10 00	3	thermometers	2 00
4	horses	400 00	6	tables	12 00
6	harnesses	180 00	30	tin dippers	3 00
4	halters	1 00	1	typewriter and desk	140 00
1	hat rack	3 00	2	umbrella stands	2 00
14	ink stands	7 00	1	wagon van, old	25 00
30	lanterns	15 00	8	waste baskets	3 00
8	mirrors	16 00	4	water coolers	20 00
3	maps	15 00		Operating table and chair	37 50
10	rugs	30 00	3	medicine cabinets	75 00
12	pairs handcuffs	36 00	2	wardrobes	15 00
1	police van	200 00	2	wagon jacks	2 00
3	police signal systems	12,000 00			
2	bicycles	60 00			$16,271 75

EXPENDITURES.

Advertising	$20 00
Buttons for department	63 75
Carriage hire	17 00
Printing	83 77
Cambridge Gas Light Co.	600 40
Cambridge Electric Light Co	291 90
Clipping horses	9 00
Expressing	8 60
Cleaning stations	240 01
Bicycles for department	60 00
Cloth for department	675 64
Directories for department	34 00
Revolvers for department	93 00
Travelling expenses	435 15
Photographs for rogues' gallery	24 00
New England Telegraph & Telephone Co.	345 98
Hay and grain and care of horses	718 33
Medical attendance and medicines	24 40
Harness, new	40 00
Shoeing horses	149 00
Food for prisoners	47 63
Telegrams, etc.	11 22
Analysis	5 00
Ice for department	34 56
Rebate on minors licenses	91 05
Repairs on harnesses	40 70
Repairs on furniture	6 75
Public property for heating and care of buildings	890 00
Repairs on vehicles	504 13
Laundry	39 36
Repairs on buildings	27 02
Repairs on revolvers	2 00
Military instructions	62 00
Supplies for stations	700 35
Procuring evidence	3 30
Counsel fees	75 00
Stenography	11 00
Gas Consumers Association	15 00
	$6,500 00
Salary of Chief of Police	$2,000 00
Salary of Deputy Chief of Police	1,500 00
Salary of Captains and Chief Inspector	5.600 00
Policemen, services of	136,817 52
	$145,917 52
Appropriation for salaries	$146,000 00
Expended	145,917 52
Balance unexpended	$82 48
Appropriation for general expenses	$6,500 00
Expended	6,500 00

MEMBERSHIP.

The membership of the Department is as follows :—

Chief, FREDERICK B. PULLEN

Deputy Chief, WILLIAM F. BATCHELDER

Captains.

John F. Murray — James E. Murray — John J. McBride

Chief Inspector.

Patrick J. Hurley

Assistant Inspectors.

Lieut. James A. Cox — Lieut. John W. Deehan — Lieut. Michael Neilan

Lieutenants.

*Daniel Callahan
Michael J. Conry
James S. Alexander
David A. Stevens
Charles L. Pike
James P. Hall

Sergeants.

James E. McNulty
Patrick F. Murray
Herbert Gordon
Frederick A. Robinson
Daniel F. Counihan
Orrin B. White

Patrolmen.

Richard H. Aylward
Charles F. Aberle
William H. Aberle
Michael J. Brennan
Thomas F. Burke
George T. Barrington
Ernest E Blanchard
Elbridge S. Blen
Charles E. Bradley
Thomas F. Coady
John J. Canney
Thomas M. Campbell
Edward J. Comerford
Robert G. Culhane
Timothy Crane
Timothy Corcoran
John Coulter
John P. Conroy
Anton B. Diehl
Patrick Doyle
Harry W. Davis
Patrick F. Dunlea
Thomas F. Dynan
Joseph J. Donahue
Frederick M. Ellis
James B. Forristall
Joseph H. Furbush
Michael A. Ginty
William B Ginty
John J. Griffiths
Mortimer M. Hackett
John A. Hezlitt
Benjamin F. Higgins
William H Hill
James H. H. Holt
Edward F. Horrigan
William H H. Howe
Dexter Jewett
James M. Keaney
John Kelleher
Patrick D. Kelley
Michael J Kelley
Frederick L. Ladd
Frank D. LaMarche
Frederick W. Law
Dennis F. Leahy
Timothy F. Leahy
Augustus J. Largenton
George J. Mahoney
Peter J. Murphy
John P. Maloy
Charles C. Marston
Edward J. McCabe
Bernard McCaffrey
Charles J. McCann
Jeremiah H. McCarthy
John E. McCrehan
Joseph F. McCorry
Richard M. McFadden
William F. McKeown
James L. McElroy
William H. McMenimen

* Died December 10th, 1905.

Robert E. Mullen
William N. Mullins
Simon J. Mulvaney
John P. Neilan
Joseph W. Parks
Charles H. Presho
Charles W. Priest
Thomas J. Real
Ralph R. Rice
John W. Roberts
William H. Robertson
Bernard J. Roper
Thomas P. Rowe
William H. Rowe
Frank W. Scobey
Benjamin C. Scully
John W. Skelley
George Smyth
John J. Sheehan
Cornelius Sheehan
Thomas Shea
Cornelius Sullivan
Joseph C. Temple
David H. Walsh
David L. Walsh
Edward J. Welch
John H. Wells
John E. Winslow
Charles W. Wyman

Reserve Officers.

John F. Powers
George A. Patten
John J. O'Brien
Joseph F Doherty
Lochlin Gavin
Robert J. Douglas
Patrick J. Healey
Jerome D. Ireland
Joseph H. Shannon
Francis H. Gutoski
Thomas J. Shannon
Patrick H. McNamara
Michael McMahon
John F. Green

Drivers.

John T. Cook
John Coffey
Dennis J. Sullivan
John Sullivan
Warren H. Dow
George E. Sherman

Matrons.

Elizabeth Doyle
Mary McEachern

Pensioners.

Lothrop J. Cloyes
Mark J. Folsom
Henry C. Jones
Edward F Belcher
Frederick Apel
John E. Shaughnessy
William H. Graves

The Police Department consists of the same number of officers as at my last annual report, with the same apportionment to the several Police Divisions as then indicated.

The discipline of the Department has been kept to a high standard, with few infractions of the rules governing the force, and those mostly being for minor violations of the regulations.

Two officers have been complained of for serious misconduct, one for wrongful arrest and untruthfulness, and the other for intoxication while on duty and untruthfulness; the first being found guilty and removed, the other being allowed to resign while charges were pending. One other was charged with intoxication while on duty but on a hearing was found not guilty and ordered returned to duty. One charged with failing to ring duty calls and false report regarding the cause was found guilty and fined twenty days' pay. One Sergeant was complained of for conduct unbecoming an officer and on a hearing was found not guilty. One Ser-

geant and twelve patrolmen were complained of during the year for violations of the regulations and fined one to five days' pay.

Three patrolmen were complained of charged with various petty violations, but charges withdrawn or finding of not guilty rendered.

There has been a noticeable improvement in the general appearance of the officers which is very gratifying to those in authority, and must also be so to the citizens who take an interest in the police branch of the public service. I believe there is no Department of the City, with the possible exception of the Fire Department, in which our citizens take so much interest and pride as the police force, and when they observe careful, alert, clean and attentive officers it gives them a feeling of security that would not otherwise prevail. Every officer, of whatever grade, ought at all times to have not only his own interests at heart, but should feel that he was a representative of the best in his City, and so appear and conduct himself as to impress it on every one at all times. It has been my aim to instil into each officer that feeling of pride in himself, and loyalty to his fellow officers which constitutes that "*Esprit de Corps*" so necessary to the efficiency of every body of men.

Two appointments of patrolmen from the reserve force have been made to fill vacancies during the past year, caused by resignation and removal, and the reserve force filled from the Civil Service list to its maximum, which is now fourteen.

The Inspectors' Department under Captain Hurley has done excellent service and has been very successful in their line of work. There is great need of more room for the proper working of this Department, which would result if my recommendation in another place in this report was carried out. Number of complaints made, 172; number sentenced, 55; number placed on file and probation, 44; number of cases pending, 45; number found not guilty, 12; arrested for other Police Departments, 16.

A large amount of stolen property has been recovered by the officers of this Department which is included in the general report of property recovered.

The No-License law has been well enforced during the year, the so-called kitchen bar-room being almost entirely eliminated.

I believe that some further restriction of the sale of intoxicating liquors by druggists, would meet the approval of a large majority of our citizens.

RECOMMENDATIONS.

I would respectfully recommend that the number of reserve officers be increased to twenty so that better service could be given on the Park System during the summer months when needed. In the matter of pro-

motions in the force I would earnestly recommend that they be made from the grade next below that to be filled, and only for recognized ability, and on the written recommendation of the Chief of Police.

I would also renew my recommendation of last year that a location be secured in the central section of the First Police Division and a new station house built; remodeling the present quarters for use as a place of detention for persons not criminals, but whom it is necessary to restrain and keep under medical care, also, for rooms for matrons and female prisoners as well as for those waiting a hearing in the District Court. I would also recommend alterations in Station 2, necessary to bring it up to date in the accommodations for the humane care and keeping of prisoners. There is also pressing need of more room to accommodate the rapidly increasing business at headquarters, and I would suggest that the rooms now used by the Overseers of the Poor be turned over to the Police Department. Since the Police Signal System was put in a large area of vacant land has been built on, making it necessary for the officers to patrol those sections more carefully, and to this end I would recommend that six new signal boxes be installed at places that may be designated by the Chief of Police. The placing of these boxes tends to give citizens in the locality where placed a feeling of security not otherwise had. I also renew my recommendation of last year that three more Sergeants be appointed so that one may be placed on duty in each police division in the day time, to assist the Captains in keeping the patrolmen up to a high standard of duty, and in the proper enforcement of the laws and ordinances.

Respectfully submitted,

FREDERICK B. PULLEN,

Chief of Police.

REPORT OF THE ELECTRICAL DEPARTMENT

To the Honorable, the City Council of the City of Cambridge:—

GENTLEMEN:—I have the honor to submit herewith the seventh annual report of the Electrical Department.

The extent of the work of the Department may be briefly stated as follows:—

1. Inspection of Electrical Wiring in Buildings.
2. Inspection of Electrical Wiring on the Streets.
3. Maintenance and Operation of the Fire Alarm Signal System.
4. Maintenance and Operation of the Police Signal System.
5. Construction for Fire Alarm and Police Signal Systems.
6. Supervision of Street Lighting.
7. Supervision of Poles and Wires on the Streets.
8. Electrical Construction and Maintenance for various Municipal Departments.

The work included under the first six of these headings has steadily increased, and I desire to impress on your honorable body the necessity for a similar increase of the working force of the Department to take care of this additional work. The work under the seventh heading has been neglected practically altogether by the City on account of lack of help to do it, and has therefore been left wholly to the various companies owning and operating the poles and wires. The necessity for having this inspection of poles and wires done by the City in order that they may be kept in the best possible condition is so obvious as to require only that the fact be mentioned to show the need of a sufficient working force to perform it thoroughly every year.

Most of the construction and maintenance of lighting and bell wiring for the various municipal Departments was done by others than the Electrical Department this year. This work consists mainly of small jobs in the City buildings and schoolhouses, such as additions to and repairs on the electric lighting systems, call bells, gongs, door-openers, buzzers and various electrical devices, and is made up largely of the labor involved. There is a sufficient amount of this work to keep one man busy nearly all the time, and I believe that it could be done more expeditiously and with less expense than at present by hiring a man permanently for such work and giving a sufficient appropriation to the Electrical Department for his salary and for materials that he would use.

To meet the increase in the work of the Department an Assistant Inspector of Wires and an additional lineman are absolutely necessary.

The question of an eight-hour day for all the members of the Department is one that I respectfully present for your earnest consideration. At present only the three operators work on an eight-hour basis, and even they work seven days a week. The rest of the men, numbering five, are "subject to call" for the whole twenty-four hours every day; that is, they must stay at their homes all the time, except as stated further on, in order to be ready to answer a call to repair any trouble that may arise. The men who have to answer these calls are given one day off in ten, and receive permission to leave their homes whenever they wish, but except on their regular day off they must be ready to answer calls. Although the condition of the Fire Alarm and Police Signal Systems is better now than it has been for some years past and these calls are consequently fewer in number, they are still sufficiently numerous and important to require that the men be ready to answer, and considerable extra work is thereby entailed for which no adequate compensation is received.

I cannot urge too strongly the great need of increasing the working force of the Department, and I request your earnest consideration of the subject.

The detailed work done under the several headings above, is presented below.

INSPECTION OF ELECTRICAL WIRING IN BUILDINGS.

By a provision of the City Ordinances, all wiring designed to carry electric current for light, heat, or power in buildings shall be inspected. In order that this inspection shall be sufficiently adequate, it must be done before the wiring is covered. This is brought about at present through an agreement with the Superintendent of Buildings whereby no lathing permit is given for buildings where wiring is installed until a certificate is given to show that the wiring is all right. This agreement works fairly well, but I believe that the Ordinances should provide that no wiring shall be covered until a wiring certificate is given, and also that no wiring should be done until the carpenter work, plumbing, piping and mason work is finished. This latter provision is necessary to prevent the wiring being damaged by workmen after it has been inspected, as is often the case.

As recommended by your Superintendent in his report last year, an Ordinance was drawn up to compel electricians doing work in this City to register at the office of the City Electrician and take out a permit for each installation or for additions or alterations to existing installations. This

Ordinance is designed primarily to insure that no work shall be done without being inspected, and also that the electricians may be informed of what will be allowed in case the work involves any special peculiarities. Unfortunately, the Ordinance has not yet been reported by the Committee, but I hope it may be considered favorably early in the coming year.

The amount of work in this branch of the Department has increased enormously this year, to such an extent, in fact, as to warrant the employment of an assistant to give his whole time to it; in which case old installations could be reinspected methodically and kept in a safe and proper condition. The feelings of Inspectors in other cities in relation to the latter consideration may be seen from a quotation from a report on Inspection of Wires read before the Association of Municipal Electricians last August: —

"It is a mistake to believe that once an installation has been connected to the service mains, it is no longer to be under the control of the Inspection Department. By far the larger number of accidents from electrical wiring are caused by defects in old wiring, defects caused by accidents, wear and tear, and amateur work done after the final inspection. The only method to offset these accidents is to carry on a course of periodical inspections with a view to remedying the defects. This means a larger force in the Inspection Department, but there is no doubt that the results would justify the increased expense."

The increase in inspections alone, as seen in the following table, warrants the employment of an Assistant Inspector, and during that part of the year when the pressure of new work is relieved he could handle these reinspections, the importance of which cannot be overestimated. I trust that this matter will receive the fullest consideration.

Following is a tabulated account of the inspections of interior wiring for the year with a comparison with the same work for last year: —

TABULATION OF INTERIOR WIRING INSPECTIONS MADE IN 1904 AND 1905.

	1904.	1905.	Percentage Increase.
Number of inspections	301	398	32.2
Number of visits for inspections	446	746	67.3
Capacity of 16 C. P. incandescent lamps installed	5,374	10,684	98.8
Number of low potential arc lamps installed	30	22	26.6*
Number of power motors installed	62	47	24.2*
Horse power of power motors installed	415	266	35.9*
Number of generators installed	....	3	....
Kilowatt capacity of generators installed	...	96.5	....
Capacity of Nernst lamps installed (glowers)	...	1,248	....
Number of defects noted	145	159	9.7
Number of unfinished inspections	....	16	....

* Decrease.

The decrease in the number of arc lamps installed is due to the introduction of the Nernst lamp, a large number of which have been installed, as seen farther down in the table. The low potential arcs have been used largely for lighting in stores, but the Nernst lamps have been found to give better results for this purpose, and have therefore replaced the arcs, and, to a great extent, also, incandescent lamps. The decrease in the number of motors installed is due to the introduction of three phase alternating current by the Electric Light Company, which necessitated changing from the old direct current motors formerly used to induction motors. These changes were begun the year before last, and were completed last year, so that the number of motors installed for those years is somewhat abnormal.

In addition to the visits for inspections the Inspector frequently makes visits to advise on new work that is projected or on changes and alteration in old installations. The defects noted in the table are those found after the electrician has left the work and of which he must be notified either by mail or by telephone. Defects found while the electrician is on the work and which are called to his attention at the time are not made note of. If the Ordinance referred to earlier in this report were passed, and an interview had by the Inspector with the electrician as provided in this Ordinance, the possibility of these defects occuring would in most cases be obviated.

INSPECTION OF ELECTRICAL WIRING AND SUPERVISION OF POLES AND WIRES IN THE STREETS.

I feel that this branch of the work of the Electrical Department does not receive the attention that it deserves, but unless the working force of the Department is increased materially, conditions in this respect must continue as they have been in the past. Your Superintendent has no time to devote to this work, and it should no longer be left wholly to the owners of the poles and wires. Permits to run wires are asked for almost daily, and the number has increased largely over last year's applications. These locations must be looked up, and many others should be, and I feel that it could well be done by an assistant, thereby giving time to your Superintendent for more important and less routine work. The condition of the poles in the streets has not been inspected by the City for many years, and the number of poles renewed each year by the various companies as a result of their own inspections, shows conclusively the need of such work by the City. No attempt is made to do this on account of lack of time, but it could be done by an Assistant Inspector if one were appointed.

There is now before your Committee on Highways a petition to change the Ordinance relating to the kind of pole to be used in this City so that round chestnut poles may be used instead of square hard pine poles, as is now the case, and I recommend that the petition be granted. The report made by the Special Investigating Committee of the Board of Aldermen and referred to the Committee on Highways shows conclusively the desirability of the change that the petition asks for.

The following table shows the number of permits to run wires issued during the year: —

PERMITS TO RUN WIRES.

	1904.	1905.
Number issued to the New England Tel. & Tel. Co.	444	872
" " " " Cambridge Electric Light Co.	62	47
" " " " Boston Elevated Railway Co	1	1
" " " " American District Tel. Co.	....	2
Totals	507	922

Increase for 1905 over 1904 . . . . . 70.3 per cent.

FIRE ALARM SYSTEM.

The results in the operation of the Fire Alarm System for the past year have been exceedingly gratifying, but they have been accomplished only through an expenditure of labor and energy that is greatly in excess of what would be necessary were the system as thoroughly up-to-date as such an important factor in the safety of the inhabitants and of the real estate of the City should be. I feel that past City Governments have not considered sufficiently either the vast importance and reponsibility of this Department to our citizens or the total inadequacy of the appropriations that have been given for its maintenance and extension, and I therefore desire to bring these matters before you in a sufficiently clear light in this report so that you may fully realize on what a narrow margin of safety alarms of fire are being received from the boxes and sent out to the Fire Department.

Consider first, that with the exception of a very few small fires that occur close to apparatus houses, it is only through the agency of the Fire Alarm System that the Fire Department can be apprised of the existence of a fire. The hook in the box is pulled, instantly the alarm is received at the Fire Alarm Station, and is transmitted without delay, first over the tapper circuits to the Fire Department houses and immediately afterward to the large bells and whistles to warn the call men. It is a matter of seconds only, and the value of each second is realized here at its full worth more profoundly than in any other walk of life, before the

fire apparatus is on its way to the scene of the fire. The immunity from serious fires which Cambridge has enjoyed for so many years is due largely to the shortness of this interval between the time the alarm is first sounded and the arrival of the fire apparatus on the scene.

Now, let us consider the elements that enter into the transmission of the alarms. Beginning with the boxes, each of the one hundred and thirty-five now connected with the system must be in proper condition; every wire of the one hundred and two miles must be continuous and clear of all the elusive troubles to which it is liable; the delicate, intricate, vastly important apparatus at the Central Station, the nerve centre of the whole system, the nucleus without which the rest is of little more use for the purpose than so much scrap iron, must always be in perfect working order; and finally the gongs, bells and whistles, the mouthpieces of the complete machine, must be ready and capable of translating the impulses transmitted to them into sounds intelligible to the firemen. A description of the details of the apparatus, which, in addition to giving the signals, throws on the lights, releases the horses from their stalls, and performs other less important functions, would fill a volume. And all this must be, not for an occasional hour, not for the working day only, nor can its readiness be allowed to lapse on Sundays and holidays; it must be perfect all day and all night, every day, year after year.

But is our Fire Alarm System always wholly in working condition? The boxes have always been ready to work except in a few cases of accident which were soon remedied, but none have failed when used; the gongs, bells and whistles, with the exception of an occasional slip-up of not very grave importance, have always worked properly; these may be considered as being as perfect as desirable. Where the number of units is large, an occasional imperfection is inevitable through chance and mechanical fallibility. But with the circuits and the Central Station apparatus the amount of serious trouble that occurs is enormous and appalling, when it is considered that most of it is of a nature to prevent the working of the system either in part or as a whole. For instance, the number of open circuits due to broken wires for the past year is forty-five, about ten times the number we should have if all our wire was in proper condition. About one-third of the wire has been renewed during the past three years, and to make the circuits safe, about one-half of the remainder should be renewed immediately; in fact, it should have been done long ago. It is only through the greatest effort that so much as has been done has been accomplished, and it is for the purpose of completing this work that the additional help and part of the increased appropriation that will be asked for is needed. The trouble with the Central Station apparatus is inevitable on account of its worn out condition. This appa-

ratus was not new when installed about ten years ago, and even though it had been new it would have practically outlived its usefulness in that time. The present installation is fit only to be thrown away, and steps to do this cannot be taken too quickly. I sincerely hope that the next City Government will see its way clear to giving the necessary appropriation for a whole new Central Station apparatus in a building suitable for the purpose of containing it.

I feel that I can say without fear of contradiction that this Department as a whole, including the state of the working force, is in a far better condition now than at any time during the past several years, yet certain parts of the apparatus that are impossible to renew except at great cost are in a precarious condition and are liable to break down at any time and make the whole system practically useless. I sincerely trust that this appeal for a Fire Alarm System that is worthy of the name may result in a radical change in the policy which has crippled the Department in the past through a pitiable lack of funds.

The apparatus used in the transmission of alarms has been simplified further this year. The three dial transmitter that was remodelled last year into a fast time transmitter was found to be unreliable and is now unused. In its place a new box movement transmitter was installed, and both this and the slow time transmitter were enclosed in a large upright case which also contains the transmitter wheels. This case has a glass door which slides downward, which allows the apparatus to be seen at all times while keeping it free from dust and dirt. It stands conveniently near the register and tape so that the transmitters may be operated readily when an alarm comes into the office.

The new battery stand spoken of in last year's report has been completed, but the wiring necessary to connect it to the charging board has not yet been begun. This work is necessarily slow, since it must be done only when the men are not able to work on the circuits outside. It is unfortunate that the charging board was not made larger when installed so that extra circuits that are desirable at this time might be added.

New sets of telephone generators and large extension bells to the number of ten were installed this year in the Fire Department houses. The old sets have long been complained of on account of inability to ring the different stations, and when the set in the new house at the corner of Sherman and Garden Streets was installed they were found to be of insufficient capacity to do the work properly.

Eight hundred dollars was appropriated this year for keyless doors for fire alarm boxes. The cost of one door was met from the appropriation for general expenses, and three doors and three outer cases for fire alarm boxes were purchased from the proceeds of the sale of the old

automatic repeater stored at the Fire Alarm Headquarters. In all twenty-eight keyless doors were installed. This number covers all the boxes on Massachusetts Avenue and all in the district east of Columbia Street. I recommend that next year a like amount be appropriated to allow keyless doors to be installed on the boxes in the Cambridgeport district and part of old Cambridge. A similar amount for each of the next two years will allow all the boxes on the streets to be thus equipped.

All the boxes and a three-foot strip on the poles on which the boxes are fastened were newly painted this year. Box No. 721 was installed late in the year at the corner of Harvey and Montgomery Streets. I recommend that next year the appropriation be sufficient to allow the installation of fifteen new boxes as recommended by the Chief of the Fire Department in his report of this year.

Fire alarm box keys and cards giving the location of the nearest box and instructions on how to pull the box were distributed to all the school-houses early in the year. Some of these keys are now useless where key-less doors have been installed, and steps have been taken to distribute new cards telling how to operate the new doors.

The apparatus for receiving alarms from the office of the American District Telegraph Company was installed by that company in the Fire Alarm Office this year. The boxes of this company have been installed in the City Hall, the two City Stables, the High School, the Latin School, Library and the three buildings of the Manual Training School. All this work and the maintenance of the apparatus costs the City nothing. The boxes in City Hall and the two City Stables are ready to use as soon as the necessary instructions have been given to the watchmen, and the others will be ready as soon as the necessary permits to run wires have been obtained by the company from the Board of Aldermen. Several private subscribers to the system have their boxes working, and the installation bids fair to be an important auxiliary to the Fire Alarm System.

The wiring for the gongs, telephones, light drop, horse pull and push buttons in the new engine house at the corner of Sherman and Garden Streets, was done by the Electrical Department this year. It was the desire of your Superintendent that this should be done when the house was being built, but the Chief of the Fire Department objected, principally on account of lack of appropriation. This work could have been done and it should have been done with the appropriation when the building was in course of erection, and I hope that in a like case in the future it will be done. This wiring is as much a part of the building as is the wiring for door bells in a dwelling house, and it should not be left to be done by another Department after everything else has been completed. About one and one-third miles of new line wires was run to connect this new house to

the Fire Alarm circuits. In addition to this small extension about nineteen miles of wire was renewed, covered wire being substituted for the bare wire formerly used. Some of this renewal was for the Police Signal System.

The usual work on gongs, strikers, whistles, telephones and other apparatus connected with the system was done as usual, although on account of the thorough overhauling that they have received during the past two years, the amount of this work was considerably less this year than heretofore.

I respectfully ask the earnest consideration of the City Government of the question of erecting a new building for a Central Station, the installation of new Central Station apparatus, and putting the City wires underground. The Superintendent of Buildings will inform you that the present building is in no way suitable for the use of a Fire Alarm Station and that the room now taken up in the Brattle Square Building could well be used for other purposes. A new building, three stories high, of which the first and second stories could be used for Fire Department purposes and the third for a Fire Alarm Station, could be built for about $40,000. A new building, besides being necessary, is desirable for several reasons. In the first place, if new apparatus were to be installed in the old quarters, the old apparatus would first have to be removed and set up elsewhere and kept in operation during this removal and until the new apparatus is set up. As will be readily seen, this would be a slow, difficult and costly performance. Then the quarters would have to be remodelled for the new apparatus, and when that were done the office would still be in a dilapidated fire trap, unless the whole building were remodelled at great cost at the same time. The most satisfactory way in which to go about the work is to erect a new fire proof building for which the plans should be drawn with a view to installing the apparatus, and install new apparatus. In this way the old station could be kept in operation until the new station would be ready, and then the old appartus could be disposed of, as it should be.

When the new station is built, a beginning should be made in putting the wires underground, and each year thereafter extensions to the cables should be made. In these respects Cambridge is away behind other cities, but I hope that steps will be taken immediately to enable it to compare favorably with them, if not to excel them.

The apparatus for the new station, installed and connected up ready to work, would cost about $15,000, and would consist practically of the following: —

One 4 plate single dial Manual transmitter.
" Fast Time transmitter.
" Slow Time transmitter.
" 20 circuit Protector Board.
" 20 circuit Operating Board
" 20 circuit Charging Board.
" Tapper Board.
Five 4 pen Registers and take up reels.
Twelve hundred cells of battery and battery racks.
Wiring and sundries.

Provision should be made for installing a telephone switchboard for an intercommunicating system between the Fire Department houses, and also for installing batteries, charging board and protector board for the Police Signal System, so that everything may be in one place instead of scattered among the Police Stations, as is now the case.

I ask only that the conditions described above and the recommendations made to remedy them be investigated thoroughly and methodically. If this is done, I have no doubt that your Honorable Body will agree with me that a new Fire Alarm System cannot be installed too quickly for the City's good.

Following are a few statistics of the system: —

Central Station equipment	1
Fire alarm boxes on the street	102
Fire alarm boxes on private premises	33
Fire alarm boxes with keyless doors	60
Fire alarm boxes with glass doors	11
Fire alarm boxes with glass key boxes	14
Length of circuit wires in system, in miles	102
Tower bells connected with system	10
Steam whistles connected with system	3
Tappers in firemen's residences	55
Tappers in factories where firemen work	8
Tappers in Electrical Department men's residences	3
Tappers other than in factories or firemen's houses and not in engine houses	5
Telephones connected with the system	23
Number of bell alarms for fire sounded during the past year	271
Number of second alarms for fire sounded during the past year	1
Number of general alarms sounded during the past year	1
Number of "no school" alarms sounded during the past year	8
Number of still alarms reported during the past year	55

POLICE SIGNAL SYSTEM.

No new work on the Police Signal System was done this year except to renew some of the circuits in connection with similar work in the Fire Alarm System, as is described further on in this report. The usual repairs and the remedying of troubles in the system were done, although the amount is somewhat less than for last year. With proper coöperation from the Police Department the number of pieces of trouble would be less than at present. This coöperation can be obtained only by detailing men

to do table duty alone, so that they may be instructed in the details of the operation of the apparatus in order that intelligent reports may be made to the Electrical Department of real trouble only, instead of the often times meaningless reports of both real and imaginary troubles such as are now received. To cite a single instance: When an officer pulls his duty call, if the station man wishes to talk with the officer he presses a button which rings a bell in the box, thus notifying the officer to use the telephone in the box. If the station man should get no answer, he invariably reports that the bell in that box does not ring. Now, whether that bell rings or not, the station man has no means of knowing, and to put it mildly, he assumes too much when he says it does not ring. As a matter of fact, when a box has been visited by a member of the Electrical Department after such a report, it has been found in nine cases out of ten that the bells were working properly. It is fair to assume either that the station man pushed the wrong button or that the officer at the box closed the door before the button was pushed. Many reports of other kinds have been found to be without real foundation. The records show that of 402 reports of trouble made by the police on the Police Signal System, 73, or about eighteen per cent., were cases where no trouble was found. In many other cases the trouble was such that any man who has an intelligent knowledge of the table apparatus could remedy it himself. I sincerely trust that the proper authority will take the matter under advisement, to the end that a great deal of unnecessary work and bother may be eliminated.

The work, completed just a year ago, of putting the box telephones in District 1 in multiple on twisted pair copper conductors has been justified by its success during the year. The telephones have talked up clearly and distinctly and no trouble has been experienced except where occasioned by outside influences.

All the boxes in the three police districts were newly painted this year, the old paint being scraped off before the new was applied. The appearance of the boxes would be greatly improved if this could be done every year, but for several years past it has not been done on account of the amount of more important work.

The batteries to run the Police Signal System are scattered among the three stations. At Station 1 storage batteries are used and are set up in the battery room of the Fire Alarm System and are charged from the Fire Alarm switchboard. At Stations 2 and 3 gravity batteries are used and they require the services of one man two days each week to clean and maintain them. They cannot be kept clean except by constant attendance, which we cannot give them, and they are costly to maintain. I recommend that when a new Central Fire Station is built provision should

be made for installing sufficient storage battery to run the whole Police Signal System.

I recommend that sufficient appropriation be given next year to purchase six new Police Signal boxes as recommended by the Chief of Police in his report to the City Council. No new boxes have been added for several years, and these new boxes are needed immediately for installation in parts of the City that have been built up recently and in other districts that have become more crowded.

Following is a table of the Police Signal Equipment: —

Three complete station equipments.
Two patrol wagon house equipments
Eighty street boxes.
Private telephone system with five stations.
*Fifty-eight miles of circuit wires.

*Ten and one-fourth miles of this wire is twisted two conductor copper wire. In figuring the length it is considered as one wire.

INVENTORY OF THE WIRE DEPARTMENT.

Fire alarm apparatus and machinery	$11,300 00
Fire alarm and police telegraph circuits	5,200 00
102 fire alarm boxes	6,980 00
Fire alarm reserve apparatus	450 00
Police signal apparatus and machinery	3,000 00
Eighty police boxes	10,000 00
Police signal reserve apparatus	150 00
Testing instruments	450 00
Tools	250 00
Stock on hand	600 00
Old and disused apparatus	125 00
Horses, wagons and harnesses	450 00
Building in Cushing School yard	400 00
	$39,355 00

This inventory is less than cost, but exceeds the market value.

CONSTRUCTION WORK.

In the Fire Alarm and Police Signal Systems about twenty and one-half miles of wire were pulled in. About one and one-third miles of this was used in connecting the new engine house at the corner of Sherman and Garden Streets with the fire alarm and private telephone circuits, and nearly a mile was used in putting in tappers for firemen. The rest was used to replace old wire. Several miles of this new wire, while on the poles, is not yet cut in on the circuits.

There still remains a great deal of old worn out wire that should have been replaced before this time, but the Department is handicapped

by lack of appropriations for both materials and linemen. If the appropriation for salaries next year is not made large enough for a sufficient number of men to put the Department on an eight-hour basis, it should at least allow one more lineman to be employed. There are now only two linemen in the Department and it is exceedingly hard to run in new wire with such a small force. Furthermore, the intervals occasioned by days off and the necessity of repairing troubles prevent any new work from going on with any degree of regularity.

The specifications for the electric wiring in the Houghton School were drawn up and the installation was supervised by your Superintendent personally. Construction and repair work on electric lights, bells and other electrical fixtures was done in a less degree than last year, and unless the working force of the Department is increased, will be discontinued altogether. Such work can be done more economically by this Department than by electrical contractors, but it must not and will not be done when the doing of it jeopardizes the work of the Fire Alarm and Police Signal Systems.

RESUMÉ OF RECOMMENDATIONS.

I believe that a repetition of the most important recommendations made herein will not be out of place, and I earnestly hope that they will receive your earnest consideration.

It is of the utmost importance for the safety of the City, insofar as it rests on the Fire Alarm Signal System, that a new Central Station, equipped with new apparatus, be built without further loss of time. Expediency and good practice dictate that at the same time all the City wires leading from the Central Station be placed underground for some distance. Delay in these matters can be tolerated no longer without seriously endangering the welfare of the City.

The statutes provide that all laborers, mechanics and workmen employed by a municipality shall work only eight hours a day. I believe that the men in the Electrical Department come within this designation and should therefore enjoy the same rights as the men in other Departments. With the number of men now employed, the nature of the work of the Department necessitates their working overtime to a considerable extent, for which overtime they receive no compensation, nor has any provision therefor ever been made. I believe further and recommend strongly that provision should be made next year to employ a sufficient number of men so that none may be compelled to work more than eight hours per day under ordinary circumstances, and also to enable them to be paid for any overtime that may then be necessary.

The inspection of wires has been done and is now being done by your

Superintendent personally. The amount of this work has increased to such a degree as to require his whole attention during the busier half of the year, leaving him no time to devote to other branches of the work of the Department. Such a state of affairs can be relieved only by the employment of an Assistant Inspector, and unless this is done, the work, with the normal increase that may be expected next year, cannot be maintained at its present high standard. Closely connected with this subject is the question of the clerical force of the Department and the location of the Superintendent's office. With the exception of the work of inspecting wiring, all the work of the Department centers about the Fire Alarm Headquarters, and must be directed by the Superintendent from there. The fact that he also has an office in City Hall necessitates his having office hours at that office and also requires his spending more or less time going from one office to another. The demands of the Department require longer office hours for the Superintendent, but the present necessity of his doing the work itself prevents this, and the only remedy is to give him an assistant to do the routine work of inspecting. One clerk does for both the Building Department and the Electrical Department, and there being sufficient clerical work in each Department for a separate clerk, both Departments suffer as a consequence. The clerical work is of vast importance in every Department and it is a deplorable state of affairs that compels two Departments to suffer for lack of funds to employ one more clerk. If the Electrical Department had the whole services of a clerk, the office could be moved to the Fire Alarm Headquarters where it naturally should be, thus saving time to the Superintendent and adding convenience both to him and to many of the people who call to see him. I trust that next year sufficient appropriation for both an Assistant Inspector and a separate clerk will be forthcoming.

This year about one-quarter of our fire alarm boxes were equipped with keyless doors. Nearly half of the boxes still remain to be thus equipped. I recommend that this year's policy of appropriating $800.00 for this purpose be continued for two years more, so that all the old key doors with the attendant difficulties of distributing keys and of finding a key when needed will be eliminated.

In making these recommendations I fully realize that a widespread belief exists that each Departmental head seeks to have his recommendations adopted largely for the purpose of increasing the relative importance of his Department, and also that, expecting to receive far less than he asks for, he therefore asks for far more than he hopes to get or needs. I sincerely hope that it may be believed that no such motives prompt the above recommendations, but that they are made solely with a view to safeguard the City in a direction that has been sadly neglected in the past.

STREET LIGHTING.

Contracts for street lighting were made this year with the Cambridge Electric Light Company for electric lamps and with the Welsbach Street Lighting Company for gas mantle lamps. These contracts are for one year only. If the contracts were made for a longer period a material reduction in the price could be obtained whereby thousands of dollars could be saved, and I recommend that power to make a contract for street lighting for five years be granted.

The number of street lights has increased to about the usual extent this year. As recommended in last year's report I believe it to be to the City's interest to discontinue the use of incandescent electric lamps for street lighting. I recommend that next year the Committee on Wires and Lamps consider seriously the question of replacing these lamps with arc lamps or gas lamps. These incandescent lamps are installed almost solely in residential districts where the trees are usually thick and abundant. The lamps are just far enough above the street to be invariably among the branches of the trees and therefore throw very little light where it is needed. Furthermore, the nature of incandescent lamps is such that the amount of light that they give falls off rapidly soon after they are first lighted. Then, too, the fixtures soon become rusted and are sufficiently near so that their appearance when in that state is somewhat unsightly. From no point of view are they desirable for street lighting and I recommend that their further use be discontinued.

The results from this Department during the past year have been more gratifying than for any year heretofore. The outages have been exceedingly small and comparatively few complaints have been received from citizens on account of lamps not burning.

Following is a financial and statistical statement and an inventory of the Department. A more complete financial statement may be found in the Auditor's report.

FINANCIAL STATEMENT.

Amount appropriated for salaries	$1,000 00
" " " other expenses	77,600 00

The principal items of expense are as follows: —

For arc lighting	$54,853 14
For incandescent lighting	13,309 95
For Welsbach gas lighting	8,897 49
Salary of Superintendent	1,000 00

The expense for electric lighting has been as follows: —

ARC LAMPS.

Amount of bills rendered	$54,941 14
Amount of deduction for outage	88 00
Amount expended for arc lighting	$54,853 14

INCANDESCENT LAMPS.

Amount of bills rendered	$13,339 13
Amount of deduction for outage	29 18
Amount expended for incandescent lighting	13,309 95

The expense for gas lighting has been as follows: —

WELSBACH GAS LAMPS.

Amount of bills rendered	$8,940 92
Amount deducted for outage	43 43
Amount expended for Welsbach gas lighting	$8,897 49

STATISTICAL STATEMENT.

The number of hours in which one or more lamps failed to burn is: —

For arc lamps	2,933
For incandescent lamps	2,918
For Welsbach gas lamps	4,343
Total outage hours for all lamps for year 1905	10,194

The number of lamps maintained by the City on the streets on November 30, 1905, is as follows: —

	Number Nov. 30, 1904.	Number Nov. 30, 1905.	Increase during the year.
Arc lamps	564½	597½	33
Incandescent electric lamps	438	443	5
Welsbach gas lamps	296	314	18
Total	1,298½*	1,354½*	56

* Half the expense of one lamp borne by private party.

INVENTORY OF LAMP DEPARTMENT.

314 lamp posts	$3,140 00
Office furniture	275 00
Stock on hand (old and disused)	385 00
Horse, carriage and harness	300 00
	$4,100 00

I desire to express thanks to His Honor, the Mayor, the Committee on Wires and Lamps and to the City Council as a whole for the courtesy and consideration shown me during the year.

Respectfully submitted,

TIMOTHY C. O'HEARN,
Inspector of Wires,
Superintendent of Lamps.

REPORT OF THE TRUSTEES OF THE CAMBRIDGE PUBLIC LIBRARY

To the Honorable, the City Council of the City of Cambridge: —

The trustees of the Cambridge Public Library respectfully submit their forty-eighth annual report, covering the year ending November 30, 1905.

Such a report should include not only a record of what has been accomplished during the past year, but also a statement of what may reasonably be expected from an institution owned and supported by the citizens of Cambridge. An analysis of the work of the past year and a comprehensive statement of the needs of the library will be found in the report of the librarian, of which we ask your careful consideration. The trustees, however, desire to draw your attention to the very gratifying increase in the circulation of books and to express their belief that while this is not a complete measure of the work done by the library, it may fairly be taken as evidence of a larger and wider usefulness. A like, if not indeed a greater increase in patronage has been noted in the reference department, though such use of books is not included under the heading " circulation."

The traveling libraries and local stations continue to meet, in part at least, the requirements of those living at some distance from the main library. Much more, however, might be done in this directon and it is the earnest wish of the trustees to increase the number of the traveling libraries, thereby bringing the main library into closer contract with all sections of the city. In view of the extra work in caring for the traveling libraries, it seems desirable to increase the compensation allotted to the agents at the local stations. In some cases this will be necessary if the stations are to be maintained.

The trustees reaffirm their belief that co-operation with the schools is one of the most important developments of library work. The experience of the past year has been encouraging, notwithstanding the limitations springing from lack of financial means. A large number of reference books is urgently needed.

The room reserved during the past year for the use of newspaper readers has been greatly appreciated by the public, and has served, moreover, to relieve the frequently overcrowded circulation department.

The income from the generous bequest of the late James A. Woolson is now available, and with the consent of his daughter, Mrs. Byron S. Hurlbut, has been used in the purchase of music scores. At present the

library possesses a fair collection of books relating to the theoretical and practical aspects of this art, and it is desirable that these may be easily accessible to students and to music lovers. A similar advantage would result from massing in one place all books pertaining to other fine arts. By the transfer of the Wyman library to the custody of the Boston Medical Library space is now available for the development of a project which has for some time been under consideration, viz., the formation of a department of Fine Arts. As books of this class are usually purchased from the income of special funds, the only expense upon the city would be that entailed in suitably preparing the room. The trustees therefore recommend that a sufficient appropriation be granted for this purpose.

The branch library at East Cambridge reports a creditably successful year. The appointment of an extra assistant has been of great benefit, enabling Miss Curtis, the assistant in charge, to give much needed help to the patrons of the branch. The limited appropriation granted for the past year prevented the contemplated changes in the room. It is hoped that these improvements may be undertaken during the coming year.

The main library building is now open to the public from 9 A. M. until 10 P. M. During the fall and winter months the services of the janitor are required as early as 6 A. M. and oftentimes as late as 11 P. M. Of necessity, each day at meal times and occasionally at other times, the janitor is not within the building. The trustees are of opinion that at all times while the library is open to the public some competent man should be present and they therefore ask that they be given the means to employ an assistant janitor.

As a result of the change in schedule and more especially of the increase in the volume of work accomplished during the past year, greater demand has been made upon the various members of the staff. The trustees gratefully commend the spirit with which this demand has been met by the librarian and his assistants. The need of a new cataloguer is more keenly felt now than formerly. Until such an appointment is made the work of all departments of the library will be, to some extent, embarrassed.

EUGENE A. McCARTHY,
GEORGE F. McKELLEGET,
J. HENRY DUCKREY,
JOHN BUCKLEY,
ALBERT M. BARNES,
EDWARD C. WHEELER,
WILLIAM TAGGARD PIPER.

REPORT OF THE LIBRARIAN

CAMBRIDGE, Mass., November 27, 1905.

To the Trustees of the Cambridge Public Library: —

GENTLEMEN: — I herewith submit the following report of the work of the library for the past year.

STATISTICS OF GROWTH.

The growth of the library, as shown by the statistics in Appendix I, has been marked in all its departments. The total circulation is 228,779, as against 192,356, last year, an increase of 36,423. The circulation from the children's room reached 35,774, an increase of about one-third over that of last year. This being the first full year of the traveling libraries, a comparison can be only partially made. The fact, however, that the traveling libraries, with one exception, are placed with the local delivery stations, and that their totals are more than half the whole count at those stations, 10,368 and 18,357 respectively, is sufficient testimony to the importance of this branch of the service. The circulation through the schools has increased one-third, from 12,264 to 16,430. The East Cambridge branch library has less increase to record this year than last year the totals being 36,221 and 35,057, a gain of 1,164.

MAIN DELIVERY ROOM.

The open shelves of the main delivery room have been filled, for the most part, with recent and popular books, in a convenient arrangement by classes. The single shelf reserved for the latest fiction is often empty, and always sufficient to hold all the books of the class that may be in at any one time, as compared with a whole adjoining section of four shelves of the latest non-fiction, which is always well-filled. This increasing demand for fiction cannot be met in the usual way. A partial attempt to meet it was made in November, by placing on trial the special service offered by the Booklover's library, of "forty books exchangeable at the Boston office, as often as desired, at the rate of $10.00 a month." These forty books have circulated 150 times in 25 days, a showing sufficiently satisfactory to warrant a continuance of the experiment for at least another month, and perhaps to add another lot for circulation through the local stations. The first of the "Rotation lists," so-called, was started in February, with General History as the special topic. The books are chosen to fill only one of the open shelves of the main delivery

room, and are to "rotate" once in two weeks or longer, history by periods and local history following general history. After history will follow other groups, in rotation throughout the stack, so that, in course of time, the more popular books on all subjects will have had their turn on the open shelves. At one time half the books were out, and as these included older as well as newer books on each special topic, the showing has been very satisfactory, as illustrating the fact that people may often be induced to take out such books, if only they are given a good opportunity to see and examine them beforehand. The open shelves are especially well adapted to meet this condition.

NEW SCHEDULE OF HOURS.

A new schedule of hours of circulation at the main library went into effect March 1, by which both the public and the library staff have been benefited. Instead of from 10 A. M. to 8 P. M., as heretofore, the time for the delivery of books was extended two hours each day, from 9 A. M. to 9 P.M. By making use of a system of relays, the desk assistants are on duty only three evenings, instead of four, each week, and not more than three mornings, instead of five, as heretofore; and the other assistants have been given still less evening work, instead of the previous rule of four evenings each week, exclusive of the cataloguing staff, which now has no evening schedule. The reading and reference room added one hour, from 9 to 10 P.M., the hour of closing remaining the same as before, 10 P.M. A change was made in the summer schedule for the reading room by fixing the hour of closing at 9 P.M., from June 15 to September 15. The children's room was closed for the delivery of books at 8 P.M., and to all readers at 9 P.M.

NEWSPAPER ROOM.

The convenience of the Memorial room for newspaper files and tables has been shown by the steady and increasing attendance. Another long table will soon be needed, especially on Sunday afternoons, and it will have to be placed in the inner Cambridge room. Two walls of this inner room have been furnished with rods and wires for the support of the photographs loaned by the Library Art Club. There has never been sufficient wall space in the library for the proper display of these Library Art Club collections. Portable stands, with wire meshing, like the one provided for the East Cambridge branch library, a year ago, would be a considerable aid. An art room, convenient of access, is much needed. The room over the main entrance, which was formerly used for the Wyman collection of medical books, would serve well such a purpose, except for the drawback of its location on the second floor.

CATALOGUING AND REFERENCE DEPARTMENTS.

In addition to the regular routine, which has included the preparation of nearly 2,000 more books than last year, the cataloguing department completed a revision of the juvenile fiction. Other work of revision, especially the re-cataloguing of the large miscellaneous collection of old books, now shelved on the basement floor of the stack, and entered chiefly in the old printed catalogues, in four separate alphabets, has had, from year to year, to be indefinitely postponed. The exclusion of this collection from the card catalogue has at times caused some inconvenience and misunderstanding as to the resources of the library on any given topic, and until this work of re-classification is done, the card catalogue will continue to be to that extent crippled and insufficient. Besides the usual number of special lists for the monthly Bulletin, a separate edition of the Christmas list was issued, numbering 500 copies. At the request of the superintendent of schools, Mr. Francis Cogswell, a revised and enlarged list of books on education was included in his annual report, with a separate edition of 200 copies for the library. The list of books comprising the "Traveling health library" will be described below. In the fall four special lists were prepared for Mr. R. H. Gallagher and his classes in the Rindge Manual Training School, on forestry and trees, pattern making and foundry practice, woodworking and carpentry, and mechanical drawing. For much of this work the reference librarian gave valuable assistance, but too often the pressure of work in the cataloguing department has interfered with the best conduct of the reference department. In spite of this the reference department has come to be recognized as a distinct and co-ordinate part of the library service.

CHILDREN'S ROOM.

The increase of one-third in the circulation forms one of the most notable features of the work of the year. The changes completed last year have made the children's room well adapted to its special purpose. There is an immediate need of a new delivery desk at the end of the room and of more tables and chairs for the smaller children, especially on Sunday afternoons. There is need, also, of duplicating a number of reference books, so that they can be kept and used in the children's room, instead of obliging the children, to some occasional annoyance of adult readers, to go to the main reference room for this part of their work. The extra depth of the shelves has caused the smaller children much difficulty in handling the books. They should be cut down or be provided with false backs. Six sets have been added to our large collection of

stereographs, making in all twenty-five sets, of which the last purchased was the set on the Philippines. Their popularity seems undiminished, and their use by adults is on the increase.

SCHOOL CIRCULATION.

The work of co-operation between the library and the schools was furthered by the purchase, in December. 1904, of a large supply of new books, both for the school delivery and for the children's room. The City Council not only granted the petition of the trustees to be allowed to expend for this purpose $500, in addition to the other expenditures for that month, but later made more than good this amount by an increase of $1,000 in the annual appropriation, of which a fair proportion was to be expended in the service of the traveling libraries and the local stations. This year the Putnam school leads the Harvard school, with figures respectively of 2,489 and 2,236. The Roberts school comes next, with a count of 2,051. The Morse school has 1,032, in spite of the fact that it possesses a large school library of its own. The Kelley school drops to 569; the Wellington school is at the foot of the list, with 485. The new Houghton school has its proportion of books for the first time this fall. A collection of duplicates for school use is now forming at the end of the main stack, for the convenience of the assistants in charge and also of the teachers. With the increase in the supply of new books it has been found practicable to extend the times of exchange from two weeks to two months, a relief that is appreciated by both the staff and the teachers, and at the same time a saving in the wear and tear of the books from less frequent transportation by the carrier. A new charging system was carried into effect in March, based on the Newark system and designed to secure greater accuracy in the count of the circulation. An important extension of the school service was made in November by sending a first instalment of books to the large parochial school of St. Mary's, on Harvard Street, at the request of its principal, Rev. Michael J. Doody. Instead of talks before the children in the school halls, visits were made by the librarian to the principals of all the schools, and arrangements were considered by which the pupils of the grammar grades might come to the library for special instruction, at such times as might be taken from the regular school routine. It is hoped that in this way the work of co-operation will be carried one step further.

TRAVELING LIBRARIES.

This new and interesting feature of the work of the library has borne out the promise of its beginning, a year ago this fall. Thus far, with one exception, the regular local stations have become the depositories of

the traveling libraries. Mr. Hunnewell's station continues to lead in this, as in the regular local delivery service, with 1,949 as his count. The station of the first twelve last to be established, that of Mr. Martin, on Lafayette Square, has shown the largest proportion of increase, being a close second with 1946. Mr. Dow's station is third, with 1,832; Mr. Murphy's fourth, with 1206; and Mr. Gove's is the smallest of the older stations, with 370. At some of the stations more use is made of the traveling libraries than of the local delivery service. In order to meet the demand for fiction six of the traveling libraries have been enlarged, in the course of the year, from 50 to 75 books each, fiction and non-fiction then standing in the proportion of two to one. These increases have been made entirely from the most recent fiction. The distribution of the traveling libraries over the city has served to compensate, in part at least, for the distance of most of the local stations from the main library. It has often been found more satisfactory to take out a book from the traveling library at the nearest station, even if it is not a late one, than to wait for the doubtful chance of getting a late book from the main library through the local delivery. As the books comprising the traveling libraries are charged directly from each local station, on slips without cards, separately from other library books, the two forms of the service may be made use of at the same time. This care of the traveling libraries having more than doubled the work of the local stations, an increase of compensation on the basis of circulation should be considered for all the stations, as was done, last May, for the station in Lafayette Square.

A new departure in the use of the traveling libraries was made, in May, by extending the privilege to private clubs, as distinguished from the local stations established by the city. The first application to be considered was that of the Douglas Club, of North Cambridge. The books for this traveling library, the thirteenth in the series, were limited in number to 25, and chosen, by request of the president of the Club, Mr. John H. Mahoney, partly from an educational point of view, in the proportion of 15 books of non-fiction to 10 of fiction. Their instalment at the quarters of the Club, on Dudley Street, gave occasion for a talk by the librarian on the books comprising the new traveling library, and also on the advantages to be derived from the nearness of the regular local station at Lombard's drug store on Rice Street. A similar talk was given, earlier in the year, before the Cambridge Men's Forum, connected with the St. Paul's Social Settlement on Portland Street.

A traveling library of still another kind was in January placed on a reserved shelf in the main reading room. It was requested by Mrs. Rufus P. Williams, in behalf of the State Federation of Women's Clubs and

the local Anti-tuberculosis Association. Called the "Traveling health library," it is designed to aid in the local movement against the spread of consumption. This special collection is a duplicate of the one owned by the State Federation, which is being sent to various cities and towns throughout the State. A list of books contained in this Health library was printed in our library Bulletin for April, and a supplementary edition of 500 copies was issued for distribution at the meeting of the Cantabrigia Club, on April 5.

LOCAL STATIONS.

The local stations have gained in importance as being also depositories of the traveling libraries. Those which did well last year have shown consistent increases this year. Here again Hunnewell's station is far in the lead, with 5,425 as his count. Lombard's station is next, with about half as many, exactly 2,766; Gove's is third, with 2,202; Dow's fourth, with 1,510; and Martin's fifth, with 1,466. The lowest of the stations is Yerxa's, with only 679. Three stations which have never been successful, those at A. E. Lynch's drug store, 118 Hampshire Street, Joseph O'Donnell's drug store, 903 Cambridge Street, and St. Paul's Social Settlement, 50 Portland Street, were discontinued at the end of the third quarter. Two of their places were supplied in October by new stations at the Conley drug store, 136-138 River Street, and at A. W. Kidder's drug store, 169 Harvard Street, corner of Windsor Street. These stations are promising well. The third station has not yet been placed. A large section of the city below Inman Square is now deprived of representation through local stations. The fact that it has not been well covered makes all the more desirable some strong effort to supply the deficiency. No other part of the city is so much in need of aid from the library, such as might best be furnished by a local station at a suitable place in charge of an interested agent.

EAST CAMBRIDGE BRANCH.

The work of the East Cambridge branch library has increased to such an extent that it has been found necessary to add another assistant for a part of the time, and Daniel F. Burke has served well in this capacity, since his appointment in May. The circulation at this branch has more than held its own. Its central location and the nearness of the large Putnam school have helped its popularity, the principal of the latter, Mr. F. B. Thompson, testifying to the efficiency of this branch. With an additional assistant Miss Curtis can be relieved of some of the routine of the work, especially at crowded times, and be freer to give her attention to continuing the development of the branch along the lines which she has so well started.

GIFTS AND BEQUESTS.

The bequest to the library of $5,000, in accordance with the terms of the will of the late James A. Woolson, has this year become available, formal announcement of which was received by the trustees at the close of the last year. The income of this fund has been devoted to the purchase of a special list of music scores, prepared by the librarian and submitted for approval, under the terms of the will, to the daughter of the donor, Eda A. Woolson, now Mrs. Byron S. Hurlbut. By vote of the trustees, the income of the William E. Saunders fund will henceforth be devoted to the purchase of books on local history, as well as to books on genealogy, as heretofore limited. A bronze tablet, bearing, in accordance with the terms of the will of the Prentiss bequest, the inscription, "William E. Saunders alcove," has been given a suitable place in the local history room. A gift of a portrait of William E. Saunders was presented by George S. and Francis E. Saunders and hung at their request in the William E. Saunders alcove. Of the other gifts within the year, the most notable is that by Mr. Joel B. Orne of the Records of the Cambridgeport *Philolegical* Society, in three volumes, from 1840 to 1848, the italicized word being defined by Dr. Wm. W. Wellington, one of the prominent members of the Society, as "a compound of two Greek and Latin words signifying 'love of reading.'"

THE STAFF.

The resignation of Mr. Alfred E. Thayer, which came in November, created a vacancy which it will not be easy to fill. Mr. Thayer had been an assistant in the library for eight consecutive years of excellent service. In his new position as teller of a bank in West Newton, he will have the good wishes of the trustees and of all the members of the staff. Illness of considerable duration has at various times interfered with the regular service. Excellent substitutes were found in Mrs. Edith C. Norton, a former assistant in the library before her marriage, and Miss Edith E. Sherman, who, although new to the work when first employed in the spring, has made good progress throughout the year. By special permission of the trustees leave of absence in May and June was granted to Miss Brooks to attend the summer school of the State Library at Albany. In addition to the excellent record shown by her certificate of attendance, the course was especially valuable for the opportunity it afforded to confer with library workers from other parts of the country. Meetings of the staff have been held at occasional intervals throughout the year. Gratifying as has been the growth of the library from without, it has

brought with it an increase of labor and responsibility on the part of the members of the staff greater than the increase of the salary account with which to meet it. The burden has pressed most heavily upon the cataloguing department and upon the local delivery service. Another trained cataloguer is needed, even more than last year, and a second attendant for all day duty in the stack. With the increase in circulation, as shown by the statistics, comes also an imperative need for more afternoon and evening runners in the stack. The only adequate remedy will be a substantial increase in the annual appropriation for the salaries account.

Full appreciation of the cordial co-operation of both trustees and staff, through which has been made possible the continued progress of the library in all its departments, is hereby acknowledged.

Respectfully submitted,

CLARENCE W. AYER,
Librarian.

APPENDIX I

GENERAL STATISTICS.

Total number of volumes in the library	70,388
Volumes added during 1905	6,317
Volumes condemned	1,828
Duplicates exchanged	3
Volumes destroyed on account of contagious diseases	16
Volumes lost, main library	215
Volumes lost, East Cambridge branch	44
Volumes bound	2,427

CIRCULATION.

	Main library, including children's room.	Local, including branch library.	Schools.	Total.
First Quarter	38,812	19,820	4,724	63,356
Second Quarter	40,029	17,710	4,791	62,530
Third Quarter	30,518	13,546	2,561	46,625
Fourth Quarter	36,111	15,803	4,354	56,268
Total	145,470	66,879	16,430	228,779

Average per day, main library	469
Largest issue, main library, Feb. 25	1,148
Smallest issue, main library, Jan. 25	121
Average per day, children's room	115
Largest issue, children's room, Feb. 25	241
Smallest issue, children's room, Jan. 25	24

CLASSIFIED CIRCULATION: MAIN LIBRARY.

Classes.	General Works.	Philosophy.	Religion.	Sociology.	Philology.	Science.	Useful Arts.	Fine Arts.	Literature.	History.	Biography.	Fiction.	Current Magazines.	Total.
Circulation	4,052	1,621	1,631	3,503	454	2,627	3,055	4,439	9,142	9,892	4,303	58,591	6,386	109,696
Per cent	.037	.015	.015	.032	.004	.024	.028	.041	.083	.090	.039	.534	.058	1.000

CLASSIFIED CIRCULATION: CHILDREN'S ROOM.

Classes.	General Works.	Philosophy.	Religion.	Sociology.	Philology.	Science.	Useful Arts.	Fine Arts.	Literature.	History.	Biography.	Fiction.	Current Magazines.	Total.
Circulation..	135	8	164	333	0	677	216	303	719	2,612	643	29,815	149	35,774
Per cent.....	.004	..	.005	.009	..	.019	.006	.009	.020	.073	.018	.833	.004	1.000

SCHOOL CIRCULATION.

Name of School.	Ellis.	Harvard.	Houghton.	Kelley.	Morse.	Peabody.	Putnam.	Roberts.	Russell.	Shepard.	Sleeper.	Taylor.	Thorndike.	Webster.	Wellington.	Vacation Schools.	Total.
Circulation.	1,132	2,236	334	569	1,032	1,271	2,489	2,051	1,370	978	614	640	484	645	485	100	16,430

EAST CAMBRIDGE BRANCH LIBRARY.

Circulation from Branch	36,221
Local delivery, tabulated below	683
Total circulation	36,904

LOCAL DELIVERY.

(Including Traveling Libraries.)

Local Stations...	Couley.*	Dow.	E. Camb. br	Gove.	Hunnewell.	Kidder.*	Lombard.	Lynch.†	Martin.	Murphy.	Nelson.	O'Donnell.†	Phillips.	St. Paul's Settlement.†	Yerxa.	Deposit Collections.	Douglas Club.§	Total.
Regular Delivery...	50	1,510	683	2,202	5,425	10	2,766	120	1,466	1,262	1,223	49	837	75	679	1,933	....	20,290
Traveling Libraries..	31	1,740	...	354	1,866	78	777	101	1,842	1,133	506	145	995	106	593	.....	101	10,368
Totals....	81	3,250	683	2,556	7,291	88	3,543	221	3,308	2,395	1,729	194	1,832	181	1,272	1,933	101	30,658

Total Local Delivery, including East Cambridge Branch Library	66,879

* Added October 1. † Discontinued August 31. § Added May 1.

ADDITIONS (INCLUDING REPLACED BOOKS).

Source ..	City appropriation.	Citizens' Subscription fund.	Cummings fund.	Fay fund.	William E. Saunders fund.	James A. Woolson fund.	Gifts.	By exchange.	Total.
Books....	5,936	35	22	13	53	67	178	13	6,317

APPENDIX II

AMOUNTS RECEIVED FROM FINES AND SALES AND DEPOSITED WITH THE CITY TREASURER.

	Fines.	Catalogues.	Paper stock, etc.	Total.
December-February	$207 27	$1 35	$2 34	$210 96
March May	177 90	.....	2 10	180 00
June-August	158 75	.....	4 25	163 00
September-November	170 39	.....	1 50	171 89
Total	$714 31	$1 35	$10 19	$725 85

CITY APPROPRIATION.

Salaries.

Appropriation		$9,700 00
Expended		9,699 08
Amount unexpended		$0 92

General Expenses.

Appropriation		$11,000 00

Expenditures.

Binding	$971 92	
Books and periodicals	4,933 56	
Bulletin	398 25	
Fuel	665 04	
Furniture	119 55	
Incidentals	438 23	
Lighting	903 89	
Local stations	971 75	
Printing, postage and stationery	484 65	
Repairs	88 82	
Books for schools	682 57	
Traveling libraries	341 08	
		$10,999 31
Amount unexpended		$0 69

APPROPRIATION FOR EAST CAMBRIDGE BRANCH LIBRARY.

Salaries.

Appropriation (by transfer decreased from $880.00)	$850 00
Expended	849 60
Amount unexpended	$0 40

General Expenses.

Appropriation (by transfer increased from $1,000.00)		$1,030 00
Expenditures.		
Binding	$91 67	
Books and periodicals	738 62	
Furniture	9 25	
Incidentals	84 29	
Lighting	105 95	
		$1,029 78
Amount unexpended		$0 22

FUNDS OF THE TRUSTEES.

CITIZENS' SUBSCRIPTION FUND.

Balance, December 10, 1904		$84 02
Interest on daily balance		70
Interest on bonds		220 00
Cash gift, credited to this fund		18 00
		$322 72
Expenditures.		
Cambridge Trust Co.	$10 00	
Cunningham Bros	20 00	
Byron C. Darling	45 00	
Charles Evans	15 00	
Little, Brown & Co.	144 25	
George E. Littlefield	39 60	
M. S. Safford	29 02	
Society for Psychical Research	5 00	
		307 87
Balance on hand, December 7, 1905		$14 85

CUMMINGS FUND.

Balance, December 10, 1904		$14 50
Interest on bond		80 00
		$94 50
Expenditures.		
Dodd, Mead & Co.	$33 75	
Little, Brown & Co.	60 15	
		93 90
Balance on hand, December 7, 1905		$0 60

FAY FUND.

Balance, December 10, 1904		$2 92
Interest on bond		35 00
		$37 92

Expenditures.

Mrs. M. S. Hoyt	$8 00	
Little, Brown & Co.	20 10	
Medford Historical Society	1 00	
Somerville Historical Society	1 00	
		30 10
Balance on hand, December 7, 1905		$7 82

WILLIAM E. SAUNDERS FUND.

Balance, December 10, 1904	$72 25
Interest on bonds	245 00
	$317 25

Expenditures.

George E. Littlefield	$221 15	
T. F. McGann & Sons Co.	16 00	
New-England Historic Genealogical Society	13 00	
		250 15
Balance on deposit, December 7, 1905		$67 10

JAMES A. WOOLSON FUND.

Legacy	$5,000 00
Interest on daily balances	25 00
Interest on bond	87 50
	$5,112 50

Expenditures.

City of Cambridge, bond for investment	$5,000 00	
Boston Bank Note Co.	4 50	
Oliver Ditson Co.	50 69	
Little, Brown & Co	5 00	
J. H. H. McNamee Co.	46 97	
		5,107 16
Balance on hand, December 7, 1905		$5 34

The principals of the above funds are as follows:

Citizens' Subscription Fund	$5,500 00
Cummings Fund	2,000 00
Fay Fund	1,000 00
William E Saunders Fund	7,382 11
James A. Woolson Fund	5,000 00
	$20,882 11

WILLIAM TAGGARD PIPER,
Treasurer

APPENDIX III

Gifts.

	V.	P.
Abbott, Edward		1
Aberdeen (Scotland) Public Library		1
American Antiquarian Society, Boston	1	
American Irish Historical Society, Boston	1	
Ames, Mrs. James Barr	1	
Amherst College		1
Andover Theological Seminary		3
Ayer, Clarence W.	1	
Bailey, William W., Providence, R. I.		1
Barnard College, New York, N. Y.		1
Bates College, Lewiston, Me.		2
Boston, City of	2	1
Boston Athenæum		1
Boston Children's Friend Society		1
Boston Five Cents Savings Bank	1	
Boston Life Underwriters' Association		1
Boston Public Library	3	
Boston Transit Commission	1	
Boston University		2
Bostonian Society		1
Bowdoin College, Brunswick, Me.		2
Bowen, Maria	2	2
Brandon, Edward J.	1	
Brockton Public Library		1
Bronson Library, Waterbury, Conn.		1
Brookline Public Library		1
Brooklyn (N. Y.) Public Library		1
Brown University, Providence, R. I.	1	1
Buckner, William T., Wichita, Kan.		1
Bunker Hill Monument Association	1	
Cambridge, City of	4	5
Cambridge:—		
Associated Charities		1
Avon Home		1
Mount Auburn Cemetery		1
Woman's Christian Temperance Union	1	
Young Women's Christian Association	1	
Canton Public Library		1
Carnegie Library, Pittsburg, Pa.		1
Ceylon Government Commission, Colombo, Ceylon	1	
Chadwick, James Read, Boston	1	1
Chicago (Ill.) Public Library		3
Cincinnati (Ohio) Public Library		1
Clark, Susie C.	1	
Clark University, Worcester		1
Cogswell, Edward R.	2	
Cogswell, Francis	1	
Collier's Weekly, New York, N. Y.	1	
Colonel Timothy Bigelow Chapter, G. A. R., Worcester		1
Colorado College, Colorado Springs, Col.		1
Colorado University, Boulder, Col.		1
Columbia University, New York, N. Y.		1
Columbus (Ohio) Public Library		1
Concord Free Public Library		1
Connecticut, State of		2
Connecticut. Bureau of Labor Statistics, Meriden, Conn.	2	
Cornell University, Ithaca, N. Y.		1
Cummings, Prentiss, Brookline		1
Dartmouth College, Hanover, N. H.		1
Davenport (Iowa) Public Library		1
Dayton (Ohio) Public Library		1

	V.	P.
District of Columbia Public Library, Washington, D. C.		2
Dougherty, Harold T., Washington, D. C.	9	
Dover (N. H.) Public Library		2
Duluth (Minn.) Public Library		1
Enoch Pratt Free Library, Baltimore, Md.		1
Episcopal Theological School		1
Fitchburg Public Library		1
Fletcher Free Library, Burlington, Vt.		1
Folsom, Anna S.		9
Folsom, Mrs. Norton	3	
Framingham State Normal School		1
Franklin and Marshall College, Lancaster, Pa.		1
Free Library Commission, Madison, Wis.		1
Free Public Library Commission, Boston	1	1
Gallagher, Richard H.	1	
Gloversville (N. Y.) Free Library		1
Gould, Levi S., Somerville	1	
Greenfield Public Library		1
Hallock-Greenwalt, Mary, Philadelphia, Pa.		1
Hamilton (Canada) Public Library		1
Harvard University Library	3	3
Hayward, Maude L.		1
Hebrew Union College, Cincinnati, Ohio		1
Hertzog, Walter S., Shamokin, Pa.		3
Higginson, Thomas Wentworth	5	
Holy Cross College, Worcester		1
Hyde Park Public Library		1
Indian Rights Association, Philadelphia, Pa.		1
International Catholic Truth Society, Brooklyn, N. Y.		1
John Crerar Library, Chicago, Ill.		1
Johns Hopkins University, Baltimore, Md.		5
Lake Mohonk (N. Y.) Conference on International Arbitration		2
Lancaster Town Library		1
Leicester Public Library		1
Leland Stanford, Jr., University, Palo Alto, Cal.		1
Lewis and Clark Exposition, Portland, Ore.		1
Little, Brown & Company, Boston	1	
Lodge, Henry Cabot, Washington, D. C.	2	
Louisville (Ky.) Free Public Library		2
McCall, Samuel W., Washington, D. C.		1
Madison (Wis.) Free Library		1
Maine, State of	3	
Malden Public Library		2
Manitowoc Public Library, Wis.		1
Marshall, W. I.	1	
Massachusetts. Bureau of Statistics of Labor	1	1
Massachusetts Civic League, Boston		11
Massachusetts Civil Service Commission, Boston		1
Massachusetts, Commonwealth of	30	8
Massachusetts Institute of Technology, Boston		4
Massachusetts State Board of Charity	2	
Massachusetts Total Abstinence Society, Boston		1
Massachusetts Woman's Christian Temperance Union, Boston		1
Merchants' Association of New York, N. Y.		1
Metropolitan Park Commission, Boston	1	
Michigan University, Ann Arbor, Mich.		1
Milton Public Library		2
Milwaukee (Wis.) Public Library		1
Mount Holyoke College, South Hadley		2
Museum of Comparative Zoology	3	1
Museum of Fine Arts, Boston		1
National Child Labor Committee, New York, N. Y.		3
National Civil Service Reform League, New York, N. Y.		1
National Education Association	1	1
New Bedford Free Public Library		1
New England Catholic Historical Society		1
New England Society of Cincinnati, Brighton, Ohio		1
New York (N. Y.) Department of Education		1
New York (N. Y.) Merchants' Association		1
New York (N. Y.) Public Library	1	

	V.	P.
New York (N. Y.) Society Library		1
New York State Library, Albany, N. Y.	5	1
Newhall, Charles L.		1
Newton Free Library		1
Noble, John	1	
North, S. N. Dexter, Washington, D. C.	4	
North Adams Public Library		1
Northampton Public Library		1
Norton, Margaret	2	
Oakland (Cal.) Free Library		1
Oberlin (Ohio) College Library		2
Ojeda, Luis Thayer, Santiago de Chile		1
Orne, Joel S.	3	
Peoria (Ill.) Public Library		1
Philippine Civil Service Board, Manila		2
Pilot Knob (Mo.) Memorial Association		1
Plainfield (N. J.) Public Library		1
Portland (Ore.) Library Association		1
Princeton (N. J.) University	1	
Providence Athenæum, Providence, R. I.		1
Providence (R. I.) Public Library		1
Providence (R. I.) Record Commissioners	1	
Radcliffe College		1
Reading (Pa.) Public Library		1
Reed, George B.		1
Russell, Etta Lois		1
Rockford (Ill.) Public Library		1
Royal Historical Society, London, Eng.		1
St. Louis (Mo.) Mercantile Library Association		2
St. Louis (Mo.) Public Library		1
St. Louis (Mo.) Universal Congress of Lawyers and Jurists	1	
Salem Public Library		1
San Francisco (Cal.) Public Library		1
Sanger, J.	1	
Sargent, Franklin H.	1	
Scott, Mrs. Mary D., Boston	1	
Scranton (Pa) Public Library		1
Seattle (Wash.) Public Library		1
Sharples, Philip P.	1	
Simmons College, Boston		1
Smith College, Northampton		1
Smithsonian Institution, Washington, D. C.	7	
Society of Colonial Wars, Washington, D. C.	1	
Soldiers' Home in Massachusetts, Chelsea		1
Somerville Public Library		1
Spaulding, Warren F. Newspapers unbound, and	3	
Sprague, Homer B., Newton	1	4
Superintendent of Immigration, Ottawa, Canada		1
Syracuse (N. Y.)Public Library		1
Taunton Public Library		1
Trinity College, Hartford, Conn.		1
Tufts College, Medford		2
Tufts Library, Weymouth		2
Union University, Schenectady, N. Y.		1
United States:—		
Agriculture, Department of	2	
Army College Library		1
Civil Service Commission	1	
Commerce and Labor, Department of	6	5
Education, Bureau of	2	
Ethnological Survey	1	
Geological Survey	3	4
Interstate Commerce Commission	2	
Library of Congress	9	4
Military Academy		1
Naval Academy		3
Navy Department	2	1
Patent Office	2	
Treasury Department	1	1
War Department	7	1

	V.	P.
Universal Peace Conference, Boston		1
University Club, New York, N. Y.	1	
University of California, Berkeley		1
University of Chicago, Ill.	2	
University of Cincinnati, Ohio	1	
University of Illinois, Urbano		1
University of Michigan, Ann Arbor		1
University of Pennsylvania, Pa.		1
University of Vermont, Burlington		1
Vassar College, Poughkeepsie, N. Y.		1
Wakefield Public Library		1
Watertown Free Public Library		1
Wellesley College		3
Wells College, Aurora, N. Y.		1
Wesleyan University, Middletown, Conn.		1
Westborough Town Library		1
Western Reserve University, Cleveland, Ohio		3
Whitman, William, Boston		1
Whitney, L.	1	
Williams, Lillian W.	1	
Williams College, Williamstown	1	1
Winchester Public Library		1
Wisconsin State Historical Society, Madison, Wis.	1	
Woman's College, Baltimore, Md.		2
Wood, Henry	1	
Yale University, New Haven, Conn.	1	

Bulletins, or similar publications, have been received from the following: —

Boston Book Company
Boston Public Library
Brockton Public Library
Brookline Public Library
Brooklyn (N. Y.) Public Library
Carnegie Library, Pittsburg, Pa.
Cary Library, Lexington
Cleveland (Ohio) Public Library
Denver (Col.) Public Library
Drexel Institute, Philadelphia, Pa.
Fitchburg Public Library
Haverhill Public Library
Hyde Park Public Library
Leyton (Eng.) District Council Public Libraries
Lynn Public Library
Milton Public Library
Minneapolis (Minn.) Public Library
New Bedford Free Public Library
New York (N. Y.) Public Library
Newton Free Library
Osterhout Free Library, Wilkes-Barré, Pa.
Portland (Ore.) Library Association
Pratt Institute Free Library, Brooklyn, N. Y.
Providence Athenæum
Rockford (Ill) Public Library
St. Louis (Mo.) Public Library
Salem Public Library
San Francisco (Cal.) Public Library
Scranton (Pa.) Public Library
Seattle (Wash.) Public Library
Somerville Public Library
Springfield Public Library
Tacoma (Wash.) Public Library
Wilmington (Del.) Institute Library
Wisconsin Free Library Commission, Madison, Wis.
Worcester Public Library

VALEDICTORY ADDRESS OF HON. AUGUSTINE J. DALY, MAYOR

OFFICE OF THE MAYOR,
CAMBRIDGE, MASS., December 27, 1905.

Gentlemen of the City Council :—

It is a custom of long standing for a graduating class to furnish a valedictorian. Some of us are in the class whose municipal work is ended for this year at least. With regret we surrender the duties, returning to our private pursuits with a sensation of satisfaction which comes to one when the play is ended and he is wending his way homeward with the pleasant recollections of its music, rhythm, and illusions surging through his brain.

We have served our City for the past year. To those whom she has chosen to continue in her service we bring our warmest words of encouragement, wishing for them strength to labor with dignity, grace, justice and intelligence in her behalf.

To those who do not remain in her official life we bring our meed of praise for duties performed and undertakings proposed for her benefit. Let us hope that whatever form their future activities may take that the civic life which they have held in such high esteem shall be to them a constant source of inspiration.

Looking backward on the past two years of administrative work tonight, the questions force themselves upon us, what has been its character? How has it enriched our home? How has it embellished her whom we promised to serve and love? Her standard proudly flaunting in the breeze and weathering the long years of sturdy, expanding and vigorous life, has been resolutely held aloft, and has not been lowered for an instant before any civic foe. With a soul full of satisfaction we view her, as she stands resplendent and majestic among her sisters, crowned by her faithful sons and daughters with a wreath that shall never fade so long as her votaries are true to the teachings so profusely spread upon the pages of her magnificent history. We are fortunate indeed to have been selected as her servants. If I should be asked what has contributed most to her splendor, I should answer without hesitation, the ever broadening spirit of neighborly good feeling and fellowship; the promotion among her people of the view of life that inspires confidence in the integrity and the honest purpose of the great majority; the softening of the asperities of our contests by the mutual good will which has been fostered by our associations with each other. We are wont to vaunt our City's material

prosperity in speaking of her advancement, rather than her social, religious and educational achievments. While we may be justly proud of the splendid progress made in her municipal undertakings which provide broad avenues, stately buildings, spacious bridges and beautiful parkways, we must not forget that all these would be as husks if it were not for the uplifting influences, which are exerted in her midst by the grand work of her churches, schools, charitable and social societies.

It is usual on these occasions to briefly trace the important events which have occurred during an administration of the Chief Executive, giving some faint notion of the work accomplished and the undertakings initiated. Availing myself of this license, I wish to spread before you a short history of some of the activities of the past two years.

On our streets has been expended $140,000.00 for Maintenance; $211,805.93 for Construction. Of the amount spent for Construction, $107,895.38 has been from the Street Railway Tax; the balance of the Street Railway Tax, $34,500.00, having been used for snow removal.

Massachusetts Avenue, from Lafayette Square to the railroad crossing; Brookline Street, from Erie Street to Putnam Avenue; Putnam Avenue, from Brookline Street to Magazine Street; River Street, from Fairmont Avenue to the bridge, and Peabody Street have been paved with vitrified brick.

Third Street, from Charles Street to Broad Canal; Warren Street, from Cambridge Street to the Somerville line; Inman Square; Cambridge Street, from Prospect Street to Inman Square; Hampshire Street, from Prospect Street to Inman Square; Webster Avenue, from Cambridge Street to the Somerville line; Somerville Avenue, from White Street to the Somerville line; Sidney Street, from Massachusetts Avenue to Franklin Street; Lambert Street, from Cambridge Street to Gore Street; Broadway, north side, between Clark and Windsor Streets, have been paved with granite blocks.

Concord Avenue, from Huron Avenue to Arsenal Square; Cambridge Street, from Inman Square to Quincy Street; Linden and Plympton Streets, from Massachusetts Avenue to Bow Street, have been treated with bitulithic pavement.

Royal Avenue, Yorktown, Madison, Pioneer, Rutland, Stearns, Van Norden and Wilbur Streets, Bolton Street, Harvey Street Extension, from Cedar Street to Massachusetts Avenue; Oak Circle, from Oak Street to Somerville Line, and Laurel Street, have been laid out and constructed as new streets.

There have been constructed 46,100 feet, or nearly nine miles of sewers, costing $203,344 39. This is in addition to the regular maintenance of the Department. The system of improved sewerage planned in

1898, is nearly finished. The Metropolitan Sewer Tax levied on Cambridge has increased from $61,888.21 in 1895 to $89,341.00 in 1905.

The Raymond Street Subway under the Fitchburg Railroad has been contracted for, and is nearly completed, at a cost of about $6,500.00.

The construction of the Main Street approach to the New Cambridge Bridge has been begun, the work being done by the Street, Sewer and Water Departments. The underpass at the Cambridge end of the Bridge, connecting First Street with the Parkway, is now in the process of building, the expectation being that it will be finished next month. The bridge itself is entirely paved. The contract is let for finishing the Cambridge abutment. The Boston approach is nearly completed, and there will remain for the work of next year, the railings, the lamp-posts, sidewalks and towers to be constructed.

Work has already begun upon the Brookline Street Bridge, the old bridge having been torn away. The building of this bridge will abolish the grade crossings on the Boston side and will allow the running of cars by the Elevated Company over it. Our City is only obliged to build the approach upon this side of the river.

The Parkways have been extended. Work on the Front at East Cambridge having been pushed the past Summer preparing this section for use.

The River Driveway between the Cambridge and Harvard Bridges has been resurfaced and graded, the sidewalks on nearly the whole length being brought up to the proper grade.

From De Wolfe Street to the Cambridge Electric Light Company's plant, and from there to the beach at Captain's Island the driveway has been filled, and a rough roadway provided, so that it is now open for travel.

The bath-house at Captain's Island was enlarged the past Summer giving greater accommodations to this perhaps most beneficial feature of our Park system.

Baths have been opened at the Shelter in Cambridge Field, the use that is being made of them fully justifying their installation.

During the year 1904, the Park Police were merged with the regular force, and five additional Reserve Officers were appointed. This change has made it possible to patrol the City more effectively than ever before. The City Government created at that time the office of Sergeant, and six men were promoted and have since served in that capacity. The regular drill of the police has added to the improvement of the force. It has been the endeavor of the authorities to secure for them the most effective service, and that result in a large degree has been accomplished.

The Fletcher School, which was in process of construction at the time

I assumed office was finished and occupied, and the Houghton School was begun, finished and occupied during the past two years.

The Manual Training School last year was improved by the addition of a forge-shop, and this year by improvements in the main building, and the addition of the Washington School, which have added enormously to its capacity.

The Robert School has been enlarged by the addition of four rooms this year.

Last year the Wellington School was thoroughly renovated. Nearly every school building in the City has received some attention in the way of decoration or repairs or the installation of better sanitary arrangements.

I have been present at every graduation exercise of the grammar and high schools during my term of office. This is one of the high privileges which appertains to it.

The retirement of Superintendent Cogswell after his fifty-one years of labor among the school children of the City, marked, as did the retirement of Chief Casey from the Fire Department after his fifty years of service, the half-century mile-stone in the development of these two branches of our municipal work.

There has been added to the Fire Department a new engine house with its equipment and an adequate force to man it.

We were confronted two years ago with the proposition of bringing to our reservoir at Fresh Pond an adequate supply of water, the daily consumption exceeding our supply at that place.

The recommendation of the Water Board that a new conduit be constructed to bring us the water that we had stored at Stony and Hobbs Brooks, was agreed to this year, and an appropriation of $250,000 for the section from Watertown to the Pond, was made. The conduit is practically constructed of concrete and has a sufficient capacity to carry 30,000,000 gallons per day. The work was begun on the eighth day of May this year, and was completed, ready for the water to be turned on, on October 30th. It is now delivering about 9,000,000 gallons each day, and, with the yield from Fresh Pond, we had a total supply of between 10,000,000 and 11,000,000 gallons per day. The consumption for thirty-three days after the water was let on by the new conduit was 8,118,682 gallons per day, and the water in the Pond had risen eleven and one-quarter inches, or a gain of forty-eight and one-half millions. If this average is kept up during the Winter, the Pond will be filled by May 1, 1906. The work of the construction of the conduit cost about $225,000. It was done strictly as a part of the ordinary work of the Department under the direction of an engineer hired for this purpose, and a superintendent to look after this part of the work. It has proved very satisfactory.

The supply is adequate for our needs for some years to come.

If there is one subject upon which the City Government of this year should be congratulated, it is in the advance made in the settlement of the subway; or rather, the elevated railway problem. It hardly seems necessary to say that there exists a franchise today which will allow the Elevated Company to build its lines through our principal streets. Our people were troubled indeed at the prospect of such a structure being built. For a number of years the agitation for its abolition has gone on, committees of the City Governments and citizens having discussed ways and means for accomplishing the much-desired end. It came to us this year, with all the accumulations of plans and suggestions which had been made and proposed by those who had so earnestly advocated a change from the elevated to subways as the method of transportation.

The City Government of this year, through its Rapid Transit Committee, took it up with enthusiasm. After numberless meetings and consultations it was finally understood that the Company should build for us a four-track subway on substantially the terms and conditions contained in an order recommended by me, and sent to the City Council on May the ninth, 1905. A bill was presented to the Legislature and passed, but the Company failed to accept it, as it was said that the cost was prohibitive. A new order was presented to the City Council contained in a communication from the Mayor, of October 31 1905, by which it was proposed that a two-track subway should take the place of the four-track in Main Street and Massachusetts Avenue, and a two-track subway should also be provided for Cambridge Street, as set forth in the order. I recommended that a referendum vote should be taken at the City election of this year, upon the question of the adoption of this scheme for substituting subways for elevated railways, substantially as contained in this order. The City Council voted to submit the question to the voters, and the result was certainly most gratifying. Out of the entire vote of 14,472, 12,745 were recorded in favor of the order, and 904 in opposition. After this emphatic approval by the voters of the City, there can be little question that the subway is almost universally preferred. This vote illustrates the lively interest which the people take in a question of this nature which touches the welfare of the City so closely. Let us hope that it may serve as a precedent for future action upon measures of like importance.

I cannot in this brief sketch recount the many improvements that have been made, not only in the Departments to which I have alluded, but in the others connected with the City which it has been impossible for me to deal with in detail, such, for instance, as the establishment of a hospital at the City Home; the installation of a new telephone system for the police signal system in District One last year; the better equipment for fire alarm headquarters; and the renewal of about thirty-nine

miles of wires belonging to the City; the installation of 101 street lamps; the repairs, both inside and out, made at City Hall; the complete renovation of the Third District Court-rooms in the Brattle Square building, providing accommodations suitable for its increased business and the extensive repairs made upon the foundations of the building.

Bonds have been issued for City purposes for sewers, school and engine houses, park construction and street construction. In addition to these have been issued bonds for the Cambridge Bridge and for Charles River Dam, all other expenses being paid from the ordinary department revenues and from the tax levy.

The borrowing capacity of the City on December 1st, 1905, was $522,929.30.

The positions of Inspector of Milk and Vinegar and that of Bacteriologist for the Board of Health have been filled by competitive examination, extending the civil service principle.

The past two years are now history. We meet officially for the last time tonight. We have disagreed upon questions of policy, but our personal relations have been cordial and friendly. I am sure you will join with me in wishing for the officials of next year, the largest degree of success in their endeavors to shape this City's affairs in a manner which will benefit her and reflect the greatest credit upon them.

REPORT OF AGENT OF SOLDIERS' AID

CAMBRIDGE, December, 1905.

To the Honorable, the City Council, of Cambridge, Mass. :—

GENTLEMEN :—I respectfully submit the annual report of this Department for the year ending November 30, 1905.

For nearly three years the disbursement of State Aid and the duties attendant thereto have been performed by the Clerk of Committees Department. This consolidation was made with a view to economy, as the compensation originally allowed for the work was reduced, and it was expected that it would be a saving to the City. While to a certain extent this is true, in fact it has really cost the City more each year than heretofore, as in former years each application was duly investigated while at the present time nothing of that kind is done and there is no doubt but what the City is a loser by the change.

The following is the financial statement of all money appropriated and disbursements made during the year :—

The number of beneficiaries November 30, 1904, was	408	
Applications considered	142	
		550
Died during the year	23	
Left the City or dropped	64	
		87
Balance on rolls		463
Amount appropriated for the year 1904		$25,000 00
Additional appropriation		1,850 00
Total appropriated		$26,850 00

EXPENDED.

Pay-rolls — State Aid	$13,987 50	
Pay-rolls — Military Aid	993 00	
Pay-rolls — Soldiers' Relief	9,582 00	
Pay-rolls — Clerk	500 00	
Deaths	805 00	
Sundry bills	978 55	
Total expended		$26,846 05
Relinquished to Treasury		$3 95

The Committee on Soldiers' Aid have been untiring in their efforts to give to those who have applied all the consideration possible, and to them I extend my sincere thanks for the manner in which they have assisted me and for the great interest they have shown for the welfare of the needy veterans and widows.

Respectfully submitted,

EBEN W. PIKE,
Clerk and Agent.

ANNUAL REPORT OF THE CITY AUDITOR

City Auditor's Office,
Cambridge, December 1, 1905.

To the Honorable, the City Council: —

The undersigned herewith presents the annual statement of the receipts and disbursements of the City of Cambridge for the fiscal year beginning on the first day of December, 1904, and ending on the thirtieth day of November, 1905.

The first part of this report is devoted to an exhibit of the receipts and disbursements of the City arranged upon the Schedules for Uniform Municipal Accounting recommended by the National Municipal League. Following these schedules are the usual matters presented in the City Auditor's report, including a schedule of the City property.

Respectfully submitted,

HARRY T. UPHAM,
City Auditor.

REPORT OF CITY AUDITOR

For Year Ending November 30, 1905.

SCHEDULE A–I.

Receipts and Disbursements of the Fiscal Year.

CONSOLIDATED STATEMENT.

Cash Balance at beginning of the year.....		$186,946 26
Actual Receipts* during the year.....	$3,479,341 91	
Actual Disbursements* during the year.....	3,499,579 25	
Excess of Disbursements.....		20,237 34
Cash Balance at end of the year.....		$166,708 92

* Omitting duplications, which are set up separately in Schedules A–II. and A–VI.

SCHEDULE A–II.

General Exhibit of Receipts and Expenditures of the Fiscal Year.

Separated under the four heads, "Ordinary," "Extraordinary," "Trust Funds," and "Temporary Accounts."

	Receipts.	Expenditures.
Ordinary. (Operation and maintenance)..... (For details see Schedule A–III.)	$2,629,659 64	$2,616,506 30
Extraordinary. (Construction, &c.)..... (For details see Schedule A–III.)	846,950 14	880,340 82
Trust Funds..... (For details see Schedule A–V.)	2,732 13	2,732 13
Total Actual Cash Transactions of the Year. (Omitting duplications)..... (Per Schedule A–I.)	$3,479,341 91	$3,499,579 25
Temporary Accounts. (Duplications)..... (For details see Schedule A–VI.).....	798,000 00	798,000 00
Total transactions, per City Auditor's books.....	$4,277,341 91	$4,297,579 25

Ordinary has relation only to the current revenues and "running expenses" (operation and maintenance), and does not include receipts or payments on accounts of loans, nor on account of permanent construction or other capital accounts.

Extraordinary has no relation to current revenue or running expenses, but does include receipts and payments on account of loans, and for permanent construction and other capital accounts.

Trust Funds include all receipts and payments of the City when acting as trustee or as agent for funds, trusts, special deposits, etc., which cannot be used except for particular and specified purposes.

Temporary Accounts include all receipts and payments of the City which are simply journal items, duplications, or items paid in, temporarily held and paid out again, and must give the same figures for both receipts and expenditures.

ACTUAL FINANCIAL RESULT OF THE OPERATION AND MAINTENANCE OF THE CITY FOR THE YEAR.

Ordinary Receipts, as above, from taxation and other sources, not including money borrowed.....	$2,629,659 64
Ordinary Expenditures, as above, for operation and maintenance (running expenses).....	2,616,506 30
Excess of Ordinary Receipts for the year.....	$13,153 34

(Excess of Extraordinary Expenditures, $33,390.68.)

SCHEDULE A–III.

Exhibit of Receipts and Expenditures for the Year, Ordinary and Extraordinary, Grouped According to Functions.

ORDINARY.*

	Receipts.	Expenditures.
General Administration	$7,989 99	$109,393 91
Public Safety(Protection of Life, Health and Property)	20,227 00	341,145 07
Public Charity	22,220 16	71,806 00
Public Highways and Sanitation	16,928 66	487,099 03
Municipal Enterprises	355,492 62	107,808 20
Public Education, Libraries, etc	8,057 86	515,642 36
Public Recreation	5,020 58	79,892 18
Public Indebtedness. (Transactions during the year)	9,928 71	282,929 67
Public Interest	17,634 38	371,747 33
Public Taxation	2,208,668 60	308,696 37
Special Assessments. (Street Betterments, etc.)	17,144 90	.....
Unclassified	.....	.....
Total of Ordinary (per Schedule A–II.)	$2,689,313 46	$2,676,160 12
Less Transfers, Rebates and Refunds	59,653 82	59,653 82
	$2,629,659 64	$2,616,506 30

EXTRAORDINARY.*

	Receipts.	Expenditures.
General Administration	.....	.....
Public Safety(Protection of Life, Health and Property)	$7,568 00	$12,602 13
Public Charity	.....	.....
Public Highways and Sanitation	.....	437,726 27
Municipal Enterprises	3,851 74	251,232 57
Public Education, Libraries, etc	.....	128,312 68
Public Recreation	.....	50,467 17
Public Indebtedness. (Transactions during the year)	817,450 00	.....
Public Interest	.....	.....
Public Taxation	.....	.....
Special Assessments. (Street Betterments, etc.)	18,080 40	.....
Unclassified	.....	.....
Total of Extraordinary (per Schedule A–II.)	$846,950 14	$880,340 82

* For Details see Schedule A–IV.

SCHEDULE A–IV.

EXHIBIT OF RECEIPTS, APPROPRIATIONS AND EXPENDITURES, DIVIDED INTO ORDINARY AND EXTRAORDINARY, AND ARRANGED BY DEPARTMENTS AND DIVISIONS, WHICH ARE GROUPED ACCORDING TO THEIR FUNCTIONS AS IN THE PRECEDING SCHEDULE.

1. GENERAL ADMINISTRATION.

	Receipts.*		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
1.1 Mayor's Department	.....	.....	$6,000 00	$5,990 00	.....
1.2 Councils:					
City Messenger's Department	.....	.....	1,982 00	1,980 00	.....
Clerk of Committees	.....	.....	3,650 00	3,649 94	.....
City Council Expenses	.....	.....	8,900 00	8,887 98	.....
City Clerk's Department	$1,297 70	.....	8,460 00	8,425 84	.....
	$1,297 70			$22,943 76	
1.3 Law Department	500 00	.....	4,800 00	4,800 00	.....
1.4 Finance:					
Auditing Department	.....	.....	4,250 00	4,162 50	.....
Assessors' Department	.....	.....	15,800 00	15,791 84	.....
Treasurer's (and Collector)	3,055 67	.....	17,456 67	17,456 67	.....
Sinking Fund Officials	.....	.....	365 00	365 00	.....
	$3,055 67			$37,776 01	
1.5 Elections:					
Election Expenses, City Clerk	200 00	.....	8,875 00	8,857 05	.....
" Registrars of Voters	.....	.....	4,350 00	4,188 70	.....
" Sup't B'ld'gs	.....	.....	2,400 00	2,393 27	.....
	$200 00			$15,439 02	
1.6 City Hall:					
City Building Account	1,358 46	.....	20,800 00	20,746 68	.....
1.7 Miscellaneous:					
Postage and Stat'ry, Messenger	1,440 07	.....	1,700 00	1,698 44	.....
Paige's History	12 00	.....	.....	.....	.....
Proprietor's Records	2 00	.....	.....	.....	.....
Plumbing Ordinances	1 05	.....	.....	.....	.....
Sundry Refunds	123 04	.....	.....	.....	.....
	$1,578 16				
Total General Administration	$7,989 99			$109,393 91	

* These receipts have been entered in all the schedules under the department title in which they originate, although they are not placed to the credit of these departments, but are placed in the general treasury as income for general appropriations.

SCHEDULE A – IV. — *Continued.*

2. PUBLIC SAFETY. (Protection of Life, Health and Property.)

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
2.1 Police Department	$1,081 04		$153,000 00	$152,417 52	
2.2 Fire Department:					
Salaries and General Expenses.	136 35		115,000 00	114,498 01	
New Engine House, Ward 10			12,377 46		$12,377 13
2.2a Fire and Police Telegraph:					
Electrical Department — Wire Account	11 20		13,495 00	13,403 00	
2.3 Courts:					
Fines — Police Department	4,441 30				
2.4 Health Department:					
Salaries and General Expenses.			20,630 00	20,166 69	
Small-pox Hospital			900 00	848 48	
Diphtheria Hospital			8,200 00	8,139 61	
Land for Hospital			6,465 00		225 00
Commonwealth of Mass., etc.	2,182 24				
Inspector of Milk and Vinegar.			2,161 00	2,139 49	
Inspector of Animals			800 00	773 40	
	$2,182 24			$32,067 67	$225 00
2.5 Cemeteries and Crematories:					
Salaries and General Expenses.			18,000 00	17,992 08	
From Burials, etc	10,093 92				
Sales of Lands and Lots		7,568 00			
	$10,093 92	$7,568 00		$17,992 08	
2.6 Inspectors:					
Superintendent of Buildings			6,931 00	6,930 69	
Plumbers' Examiners Dept.			100 00	72 92	
Sealer of Weights and Measures	780 95		2,600 00	2,513 18	
				$9,516 79	
2.7 Militia and Armories:					
Rifle Range	100 00		606 51	606 51	
Car Tickets to and from Rifle Range			643 49	643 49	
Commonwealth of Mass.	1,400 00				
	$1,500 00			$1,250 00	
2.8 Miscellaneous:					
Total Public Safety. (Protection Life, Health and Property)	$20,227 00	$7,568 00		$341,145 07	$12,602 13

SCHEDULE A–IV. — *Continued.*

3. PUBLIC CHARITY.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
3.1 Hospitals:	$105 50	.....	$1,750 00	$1,748 72	.....
3.2 Insane:					
Outside Aid — Care of Insane...	.....	.....	.....	27 39	.....
3.3 Houses for Children, Aged, Deaf, Dumb, Blind, etc.:					
3.4 Almshouses:					
City Farm.....	4,964 10	.....	5,000 00	4,977 69	.....
City Home.....	967 69	.....	19,990 00	19,986 76	.....
	$5,931 79			$24,964 45	
3.5 Out-Door Relief.....	1,399 37				
Salaries		.....	2,755 00	2,748 75	.....
General Expenses (less Care of Insane)	.....	.....	14,000 00	13,970 64	.....
City Physician	.....	.....	1,500 00	1,500 00	....
	$1,399 37			$18,219 39	
3.6 Lodging Houses:					
3.7 Prisons and Reformatories:					
3.8 Workhouses:					
3.9 Miscellaneous:					
State Aid — Soldiers' Relief....	14,783 50	.....	26,850 00	26,846 05	.....
Total Public Charity	$22,220 16			$71,806 00	

SCHEDULE A–IV. — *Continued.*

4. PUBLIC HIGHWAYS AND SANITATION.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
4.1 Administration:					
Engineering Department	$5 30		$9,800 00	$9,164 38	
Salaries — Superintendent of Streets and clerks			4,520 00	4,482 52	
				$13,646 90	
4.2 Opening, Grading and Widening Streets:					
Grade Crossings	3,115 00				
Land Damages			8,762 10		8,244 71
Street Construction			57,658 89		55,551 46
Mount Auburn Street Bridge			2,824 21		2,824 21
Board of Survey			175 00	114 18	
				$114 18	$66,620 38
4.3 Street Paving:					
Rebuilding Streets			52,414 72	52,394 28	
Maintenance	1,180 80		70,000 00	69,995 34	
Subway at Raymond Street			6,500 00		882 00
				$122,389 62	$882 00
4.4 Sidewalks:					
Paving — Edgestones and Sidewalks	375 04		30,000 00		29,996 35
Paving — Crossings and Repairs			1,500 00		1,484 01
					$31,480 36
4.5 Street Lighting:					
Electrical Department — Street Lighting			78,600 00	78,578 77	
4.6 Street Cleaning:					
Street Cleaning Division			31,000 00	30,997 92	
4.7 Snow Removal			16,500 00	16,498 10	
4.8 Street Sprinkling:					
Street Watering	338 01		28,000 00	28,000 00	
4.9 Refuse Collection and Disposal:					
Overseers of Poor—House Offal	11,326 61		33,750 00	33,635 00	
Collection of Ashes			32,500 00	32,499 23	
				$66,134 23	

SCHEDULE A–IV.— *Continued.*

4. PUBLIC HIGHWAYS AND SANITATION—Concluded.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
4.10 Sewers and Sewage Disposal:					
Sewer Department — Construction	.....	.....	$20,000 00	.....	$19,840 12
Sewer Department — Improved Sewerage	.....	.....	61,296 16	.....	55,480 74
Sewer Department — Maintenance	$129 57	.....	18,000 00	$17,652 59	.....
Sewer Department — Separate System of Drainage	.....	.....	30,448 74	.....	23,195 32
Metropolitan Sewer Tax	.....	.....	.....	89,341 00	.....
				$106,993 59	$98,516 18
4.11 Rivers, Harbors and Waterways:					
4.12 Bridges:					
Boston Bridges	433 33	.....	18,367 00	15,858 61	.....
Cambridge Bridge	25 00	.....	347,526 77	.....	240,227 35
Bridges—Street Department	.....	.....	5,919 48	5,897 86	.....
				$21,756 47	$240,227 35
4.13 Miscellaneous:					
Damages to persons and personal property	.....	.....	2,000 00	1,739 25	.....
Civil Service Department	.....	.....	250 00	250 00	.....
				$1,989 25	
Total Public Highways and Sanitation	$16,928 66			$487,099 03	$437,726 27

SCHEDULE A–IV. — *Continued.*

5. MUNICIPAL ENTERPRISES.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
5.1 Water Works:					
Construction	.....	$3,851 74	$289,453 79	.....	$251,232 57
Maintenance	.....	.....	107,365 00	$103,043 80	.....
Rates	$348,640 11	.....	.....	.....	.....
Miscellaneous	5,457 79	.....	.....	.....	.....
Refunds and Abatements	.....	.....	7,500 00	4,764 40	.....
	$354,097 90	$3,851 74		$107,808 20	$251,232 57
5.2 Gas Works:					
5.3 Electric Light and Power Plants:					
5.4 Municipal Heating Plants:					
5.5 Municipal Street Railways:					
5.6 Transit Subways:					
5.7 Subways for Pipes and Wires:					
5.8 Markets:					
5.9 Docks and Wharves:					
5.10 City Real Estate:					
Rents	$1,394 72	.....	.....	.....	.....
5.11 Stocks, Bonds and Investments:					
5.12 Other Investments:					
5.13 Miscellaneous:					
Total Municipal Enterprises	$355,492 62	$3,851 74		$107,808 20	$251,232 57

SCHEDULE A–IV. — *Continued.*

6. PUBLIC EDUCATION, LIBRARIES, ETC.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
6.1 Schools:					
Tuition, etc.	$6,466 00				
Salaries: Janitors and others			$37,500 00	$37,459 55	
General Expenses	181 05		51,500 00	51,470 44	
Addition to Roberts Schoolhouse			20,950 00		$20,857 49
Alterations and Equipment of Rindge Manual Training Schoolhouse			20,000 00		19,551 01
New Schoolhouse "Kelley"			194 60		88 92
New Schoolhouse "Houghton"	90 00		91,778 25		87,815 26
Care of Truants			2,000 00	1,888 26	
Flags			100 00	71 95	
Incidentals			1,600 00	1,586 16	
Salaries, Teachers and Officers			377,400 00	376,264 39	
Text Books and Supplies	594 96		22,787 74	22,276 20	
Transportation			432 00	368 00	
Vacation Schools			2,000 00	1,679 64	
	$7,332 01			$493,064 59	$128,312 68
6.2 Libraries:					
Main Library			20,700 00	20,698 39	
East Cambridge Branch			1,880 00	1,879 38	
Fines	725 85				
				$22,577 77	
6.3 Other Education:					
6.4 Miscellaneous:					
Total Public Education, Libraries, etc.	$8,057 86			$515,642 36	$128,312 68

SCHEDULE A–IV.—*Continued.*

7. PUBLIC RECREATION.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
7.1 Museums and Art Galleries:					
7.2 Parks:					
Metropolitan Park Tax				$39,570 87	
Construction Account	$1,939 85		$60,423 87		$50,467 17
Commons, Squares and Public Grounds			5,000 00	4,999 70	
Cambridge Field and Shelter	32 06		6,000 00	5,999 54	
General Account	25 09		600 00	598 80	
Sections A, B, D, F and Rindge Field			3,500 00	3,499 81	
Brown Tail Moth Extermination	1,336 65		12,000 00	11,324 05	
Sections G and H			3,500 00	3,499 67	
Shade Trees	15 00		5,000 00	4,999 23	
				$74,491 67	$50,467 17
7.3 Baths:					
Park Department, Maintenance.	1,671 93		2,271 93	2,271 04	
7.4 Celebrations:					
Independence Day			1,700 00	1,629 63	
Labor Day			400 00	399 84	
Memorial Day			1,100 00	1,100 00	
				$3,129 47	
7.5 Miscellaneous:					
Total Public Recreation.	$5,020 58			$79,892 18	$50,467 17

SCHEDULE A–IV. — *Continued.*

8. PUBLIC INDEBTEDNESS. (Transactions During the Year.)

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
8.1 Receipts from Loans, not including temporary tax loans:					
Cambridge Bridge		$250,000 00			
Parks		55,000 00			
Schoolhouse		40,950 00			
Sewer		90,000 00			
Street		85,500 00			
Water		296,000 00			
		$817,450 00			
8.2 Payments to Sinking Funds:					
Park			$23,386 67	$23,386 67	
Cambridge Bridge			14,000 00	14,000 00	
Cambridge Bridge Special			616 00	616 00	
Clay Lands			5,335 00	5,335 00	
General			99,804 50	99,804 50	
Harvard Bridge			8,800 00	8,800 00	
Improved Sewerage			7,678 00	7,678 00	
Separate System			550 00	550 00	
Water			121,522 50	121,522 50	
Hospital			225 00	225 00	
Metropolitan Park Assessment			1,012 00	1,012 00	
				$282,929 67	
8.3 Direct Payment of Matured Debt: (Not from sinking funds, but from tax levy direct.)					
8.4 Floating Debt Transactions:					
8.5 Miscellaneous:					
Premium Account	$9,928 71				
Total transactions concerning Public Debt	$9,928 71	$817,450 00		$282,929 67	

SCHEDULE A–IV. — *Continued.*

9. PUBLIC INTEREST.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
9.1 Interest upon Funds on Deposit:					
Interest on Bank Deposits	$4,605 21				
9.2 Interest upon Delinquent Taxes, etc.:					
Interest on Sewer Assessments	60				
Interest on Sidewalk Assess'ts	78 60				
Interest on Overdue Taxes	9,907 45				
Interest on Betterments					
9.3 Payment of Interest upon Debt:					
Upon Funded Debt			$172,650 71	$172,343 13	
Upon Temporary Tax Loans			8,187 70	8,187 70	
Upon Park Loans			54,210 00	54,210 00	
Upon Water Loans			137,000 00	135,506 50	
9.4 Miscellaneous Interest:					
Interest on Trust Funds			1,500 00	1,500 00	
Accrued Interest	3,042 52				
Total interest	$17,634 38			$371,747 33	

SCHEDULE A–IV. — *Continued.*

10. TAXATION.

	Receipts.		Appropriations.	Expenditures.	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
10.1 Real Property Taxes:					
Taxes, 1905	$1,613,941 30				
Other Years	405,014 54				
Abatements, etc.				$41,106 18	
Refund of Excess Taxes				7,486 18	
Invalid Tax Titles				274 37	
	$2,018,955 84			$48,866 73	
10.2 Personal Property Taxes: (Taxes on Personal Property included in 10.1.)					
10.3 Poll Taxes: (Included in 10.1.)					
10.4 Other Taxes (except Franchise taxes):					
Corporation Tax	93,918 86				
Bank Tax	18,530 04			4,459 99	
Excise Tax	548 39				
	$112,997 29				
10.5 Liquor Licenses	60 00			15 00	
10.6 Other Licenses:					
Auctioneers'	44 00				
Fireworks	82 00				
Intelligence Offices	48 00				
Junk Collectors	742 00				
Marriage	557 50				
Milk	148 50				
Minors'	275 00				
Dogs	4,687 80				
Plumbers'	38 50				
Hawkers'	575 00				
Pool, Billiard and Bowling Alley	84 00				
Pedlers'	109 00				
Merry-go-round	2 00				
Wagon, Carriage and Drivers.	231 00				
	$7,624 30				
10.7 Franchise Taxes (Ordinary):					
Street Railway Tax	68,914 72				
10.8 Franchise Rights (Extraordinary):					
10.9 Miscellaneous:					
Lien Account Tax	116 45			316 15	
State Tax				129,240 00	
County Tax				106,119 75	
Armory Tax				10,348 61	
Grade Crossing				9,330 14	
				$255,354 65	
Total Taxation	$2,208,668 60			$308,696 37	

SCHEDULE A–IV. — *Continued.*

11. SPECIAL ASSESSMENTS.

	Receipts.		Appropriations.	Expenditures.*	
	Ordinary.	Extraordinary.		Ordinary.	Extraordinary.
11.1 Assessments for Laying Out, Opening and Widening Streets:					
Betterments — Streets...	.....	$66 27	.....	.....	.....
11.2 Assessments for Paving Streets:					
11.3 Assessments for Sidewalks.....	.....	11,215 67	.....	.....	.....
11.4 Assessments for Street Cleaning:					
11.5 Assessments for Street Sprinkling...	$17,144 90	.....	.....	.....	.....
11.6 Assessments for Street Lighting:					
11.7 Assessments for Garbage Collection, etc.:					
11.8 Assessments for Sewers.....	.....	6,798 46	.....	.....	.....
11.9 Assessments for Parks:					
11.10 Other Special Assessments:					
Total Special Assessments..	$17,144 90	$18,080 40			
GRAND TOTALS OF SCHEDULE A-IV.....	$2,689,313 46	$846,950 14		$2,676,160 12	$880,340 82

* Expenditures are included in "Streets," etc., under Nos. 4.1, 4.2, etc.

SCHEDULE A–V.

TRUST FUNDS, ETC.

Capital Account Transactions.

FUNDS.	RECEIPTS.	EXPENDITURES.
Cemetery Fund.....	$2,732 13	$2,732 13

Income Account Transactions: None.

GRAND TOTAL INCOME AND CAPITAL TRANSACTIONS OF TRUST FUNDS, ETC. (per Schedule A–II.).....	$2,732 13	$2,732 13

SCHEDULE A–VI.

TEMPORARY ACCOUNTS.

	Receipts.	Expenditures.
1. **Temporary Tax Loans.**	$575,000 00	$575,000 00
2. **Transfers**	6,022 69	6,022 69
3. **Payments from Sinking Funds into Treasury and from Treasury to Redeem Matured Bonds**	223,000 00	223,000 00
4. **Rebates and Refunds***	53,631 13	53,631 13
Total Temporary Accounts (per Schedule A–II.)	$857,653 82	$857,653 82

* Included under 5.1, 10.1, etc.

SCHEDULE A–VII.

A Table of Ordinary Expenditures from 1902 to 1905 (inclusive).

	1902.	1903.	1904.	1905.
1.1 Mayor's Department	$5,388 00	$5,740 92	$5,894 15	$5,990 00
1.2 Councils:				
City Messenger's Department	2,030 45	1,644 24	1,759 31	1,980 00
Clerk of Committees	3,999 02	3,657 87	3,727 50	3,649 94
City Council Expenses	3,704 75	5,385 81	4,738 85	8,887 98
City Clerk's Department	7,566 75	7,594 68	8.234 71	8 425 84
	$17,300 97	$18,282 60	$18,460 37	$22,943 76
1.3 Law Department	5,046 01	4,995 00	4,963 17	4,800 00
1.4 Finance:				
Auditing Department	3,773 65	4,046 72	4,278 75	4,162 50
Assessors' Department	13,659 86	13,983 51	16,107 64	15,791 84
Treasurer's (and Collector)	15,378 85	14,943 23	16,045 63	17,456 67
Sinking Fund Officials	405 00	405 00	365 00	365 00
	$33,217 36	$33,378 46	$36,797 02	$37,776 01
1.5 Elections:				
Election Expenses, City Clerk	6,408 42	6,422 06	9,693 28	8,857 05
" Registrars of Voters	3,162 95	3,895 05	4,453 08	4,188 70
" Sup't Buildings	3,288 68	1,699 68	2,393 75	2,393 27
	$12,860 05	$12,016 79	$16,540 11	$15,439 02
1.6 City Hall:				
City Building Account	17,328 69	15,725 58	24,650 36	20,746 68
1.7 Miscellaneous:				
Postage and Stat'y, Messenger	1,192 09	1,085 11	1,399 63	1,698 44
Miscellaneous	4,006 78	3,970 00	.....	.....
	$5,198 87	$5,055 11	$1,399 63	$1,698 44
Total General Government	$96,339 95	$95,194 46	$108,704 81	$109,393 91
2.1 Police Department	$131,251 70	$134,968 00	$143,271 60	$152,417 52
2.2 Fire Department:				
Salaries and General Expenses	93,083 78	94,521 98	96,515 55	114,498 01
2.2a Fire and Police Telegraph:				
Electrical Dept.—Wire Account	9,998 71	9,494 12	13,460 41	13,403 00
2.4 Health Department:				
Salaries and General Expenses	16,933 81	20,510 27	21,143 36	20,166 69
Small-pox Hospital	47,007 68	9,630 89	870 82	848 48
Diphtheria Hospital	9,999 58	8,163 64	8,194 22	8,139 61
Inspector of Milk and Vinegar	1,674 28	1,599 85	1,661 72	2,139 49
Inspector of Animals	777 00	794 25	769 64	773 40
	$76,392 35	$40,698 90	$32,639 76	$32,067 67
2.5 Cemeteries and Crematories:				
Salaries and General Expenses	17,450 93	16,573 12	18,078 82	17,992 08
2.6 Inspectors:				
Superintendent of Buildings	6,391 99	6,104 73	6,718 96	6,930 69
Plumbers' Examiners Dept	.....	86 00	87 80	72 92
Sealer of Weights and Measures	2,772 22	2,477 11	2,274 77	2,513 18
	$9,164 21	$8,667 84	$9,081 53	$9,516 79
2.7 Militia and Armories:				
Armory, Beech Street	61 00	97 58	124 81	.....
Rifle Range	341 28	326 73	543 50	606 51
Car Tickets to and from Rifle Range	223 24	298 86	299 31	643 49
	$625 52	$723 17	$967 62	$1,250 00
Total Public Safety (Protection Life, Health and Property)	$337,967 20	$305,647 13	$314,015 29	$341,145 07

SCHEDULE A–VII.—*Continued.*

	1902.	1903.	1904.	1905.
3.1 Hospitals	.....	.....	.....	$1,748 72
3.2 Insane:				
Outside Aid — Care of Insane	$28,036 13	$26,528 23	$8,112 24	27 39
3.4 Almshouses:				
City Farm	5,266 90	5,012 41	4,957 25	4,977 69
City Home	18,961 05	19,276 44	19,293 11	19,986 76
	$24,227 95	$24,288 85	$24,250 36	$24,964 45
3.5 Out-door Relief:				
Salaries	3,684 25	3,178 78	2,755 00	2,748 75
General Expenses (less Care of Insane)	10,979 23	13,440 69	14,496 14	13,970 64
City Physician	1,500 00	1,500 00	1,500 00	1,500 00
	$16,163 48	$18,119 47	$18,751 14	$18,219 39
3.9 Miscellaneous:				
State Aid — Soldiers' Relief	25,493 24	24,993 30	25,657 32	26,846 05
Total Public Charity and Correction	$93,920 80	$93,929 85	$76,771 06	$71,806 00
4.1 Administration:				
Engineering Dept.	$10,027 98	$9,844 41	$9,624 92	$9,164 38
Salaries—Superintendent of Streets and clerks	4,198 25	4,100 00	4,237 34	4,482 52
	$14,226 23	$13,944 41	$13,862 26	$13,646 90
4.2 Opening, Grading and Widening Streets:				
Board of Survey	138 93	96 50	174 00	114 18
4.3 Street Paving:				
Rebuilding Streets	40,368 03	14,317 30	56,467 84	52,394 28
Maintenance	66,116 51	64,977 82	69,993 13	69,995 34
	$106,484 54	$79,295 12	$126,460 97	$122,389 62
4.4 Sidewalks:				
Paving — Crossings and Repairs	9,997 85	10,000 00	9,997 18	.....
4.5 Street Lighting:				
Electrical Dept. — Street Lighting	74,249 64	75,176 66	76,787 97	78,578 77
4.6 Street Cleaning:				
Street Cleaning Division	23,230 57	29,069 88	30,999 43	30,997 92
4.7 Snow Removal	6,802 68	5,925 75	17,999 07	16,498 10
4.8 Street Sprinkling:				
Street Watering	28,998 73	27,902 12	28,000 00	28,000 00
4.9 Refuse Collection and Disposal:				
Overseers of Poor—House Offal	28,319 80	30,848 01	31,011 64	33 635 00
Collection of Ashes	28,999 44	28,797 78	32,096 98	32,499 23
	$57,319 24	$59,645 79	$63,108 62	$66,134 23
4.10 Sewers and Sewage Disposal:				
Sewer Dept. — Maintenance	17,495 00	20,672 52	17,520 11	17,652 59
Metropolitan Sewer Tax	78,252 17	79,836 65	86,891 58	89,341 00
	$95,747 17	$100,509 17	$104,411 69	$106,993 59
4.12 Bridges:				
Boston Bridges	16,928 10	16,856 21	16,794 63	15,858 61
Bridges — Street Dept.	3,500 00	3,200 00	3,097 77	5,897 86
	$20,428 10	$20,056 21	$19,892 40	$21,756 47
4.13 Miscellaneous:				
Damages to persons and personal property	3,256 72	3,637 85	1,487 93	1,739 25
Civil Service Dept.	249 95	245 05	244 87	250 00
	$3,506 67	$3,882 90	$1,732 80	$1,989 25
Total Public Highways and Sanitation.	$441,130 35	$425,504 51	$493,426 39	$487,099 03

SCHEDULE A–VII.—*Continued.*

	1902.	1903.	1904.	1905.
5.1 Water Works:				
Maintenance	$63,960 34	$64,289 51	$97,845 40	$103,043 80
Refunds and Abatements	6,985 63	6,925 51	7,291 63	4,764 40
Total Municipal Enterprises	$70,945 97	$71,215 02	$105,137 03	$107,808 20
6.1 Schools:				
Salaries: Janitors and others	$33,881 88	$34,999 25	$36,739 11	$37,459 55
General Expenses	31,802 90	47,421 10	57,590 75	51,470 44
Care of Truants	1,847 10	1,786 22	2,184 43	1,888 26
Flags	99 15	99 28	105 60	71 95
Incidentals	1,554 35	1,603 93	1,942 32	1,586 16
Salaries, Teachers and Officers	349,986 25	357,291 30	365,035 39	376,264 39
Text Books and Supplies	19,220 94	15,884 86	28,538 27	22,276 20
Transportation	300 00	309 00	321 00	368 00
Vacation Schools	1,016 97	...	1,957 43	1,679 64
	$439,709 54	$459,394 94	$494,414 30	$493,064 59
6.2 Libraries:				
Main Library	17,992 70	17,965 25	18,690 93	20,698 39
East Cambridge Branch	1,346 83	2,395 26	1,799 09	1,879 38
	$19,339 53	$20,360 51	$20,490 02	$22,577 77
Total Public Education, Libraries, etc.	$459,049 07	$479,755 45	$514,904 32	$515,642 36
7.2 Parks:				
Metropolitan Park Tax	$96,478 96	$34 541 40	$38,064 53	$39,570 87
Commons, Squares and Public Grounds	5 045 53	4,997 16	4,999 90	4,999 70
Cambridge Field and Shelter	5,111 97	4,499 79	5,399 14	5,999 54
General Account	399 28	518 13	599 99	598 80
Sections A, B, D, F and Rindge Field	2,434 20	2,979 33	2,699 71	3,499 81
Brown Tail Moth Extermination	4,799 06	3,639 13	6,699 57	11,324 05
Sections G and H	2,941 47	3,280 84	3,298 10	3,499 67
Shade Trees	6,210 56	4,949 81	4,999 70	4,999 23
	$123,421 03	$59,435 59	$66,760 64	$74,491 67
7.3 Baths:				
Park Department, Maintenance	2,291 98	2,193 95	1,696 30	2,271 04
7.4 Celebrations:				
Independence Day	75 00	1,465 44	1,692 40	1,629 63
Labor Day	.....	4 0 00	400 00	399 84
Memorial Day	1,100 00	1,100 00	1,100 00	1,100 00
Miscellaneous	185 58	39 00	.....	.....
	$1,360 58	$3,004 44	$3,192 40	$3,129 47
Total Public Recreation	$127,073 59	$69,975 07	$71,649 34	$79,892 18
8.2 Payments to Sinking Funds:				
Park	$22,541 67	$23,318 67	$22,973 33	$23,386 67
Cambridge Bridge	4,666 67	6,000 00	8,000 00	14,000 00
Cambridge Bridge Special	.....	.....	.....	616 00
Clay Lands	5,335 00	5,335 00	5,335 00	5,335 00
General	111,050 99	107,067 75	104,408 25	99,804 50
Harvard Bridge	9,500 00	8,800 00	8,800 00	8,800 00
Improved Sewerage	5,747 50	5,764 00	6,644 00	7,678 00
Separate System of Drainage	.....	.....	.....	550 00
Water	123,000 29	123,145 78	121,522 50	121,522 50
Hospital	.....	225 00	225 00	225 00
Metropolitan Park Assessment	.....	.....	1,012 00	1,012 00
	$281.842 12	$279,656 20	$278,920 08	$282,929 67

SCHEDULE A–VII.—*Concluded.*

	1902.	1903.	1904.	1905.
8.3 Direct Payment of Matured Debt: (Not from sinking funds, but from tax levy direct)	.....	.....	$51,000 00	.....
Total transactions concerning Public Debt	$281,842 12	$279,656 20	$329,920 08	$282,929 64
9.3 Payment of Interest upon Debt:				
Upon Funded Debt	$154,769 00	$166,166 50	$167,736 50	$172,343 13
Upon Temporary Tax Loans	8,337 76	9,388 13	8,548 37	8,187 70
Upon Park Loans	49,880 00	50,535 00	52,610 00	54,210 00
Upon Water Loans	129,579 00	128,806 50	126,126 50	135,506 50
	$342,565 76	$354,896 13	$355,021 37	$370,247 33
9.4 Miscellaneous Interest:				
Interest on Trust Funds	1,500 00	1,500 00	1,500 00	1,500 00
Total Interest	$344,065 76	$356,396 13	$356,521 37	$371,747 33
10.1 Real, Personal and Poll Taxes:				
Abatements, etc	$33,047 28	$38,410 77	$46,771 14	$41,106 18
Refund of Excess Taxes	128 12	2,990 09	8,486 96	7,486 18
Invalid Tax Titles	.....	124 47	110 44	274 37
	$33,175 40	$41,525 33	$55,368 54	$48,866 73
10.4 Other Taxes (except Franchise taxes):				
Bank Tax	7,802 80	6,740 92	6,650 66	4,459 99
10.5 Liquor Licenses	14 25	15 25	14 75	15 00
10.7 Street Railway Tax	466 63	.....	.....	.....
10.9 Miscellaneous:				
Lien Account Tax	3,523 60	37 30	44 01	316 15
State Tax	47,820 00	79,700 00	80,775 00	129,240 00
County Tax	100,184 86	104,400 56	109,201 21	106,119 75
Armory Tax	4,154 46	9,766 68	10,445 68	10,348 61
Charles River Dam	.....	.....	28,000 00	.....
Grade Crossing	.....	.....	7,977 69	9,330 14
	$155,682 92	$193,904 54	$236,443 59	$253,354 65
Total Taxation	$197,142 00	$242,186 04	$298,477 54	$308,696 37

TABLE OF EXTRAORDINARY EXPENSES FROM 1902 TO 1905 INCLUSIVE.

Paid in Most Cases from Proceeds of Loans Issued or Extraordinary Revenue.

	1902.	1903.	1904.	1905.
Voting Booth	$395 00			
Land for Engine House, Ward 10		$2,815 00	$17,622 54	$12,377 13
Filling Low Lands at Cambridge Cemetery	1,055 52			
Land for Hospital			35 00	225 00
Land Damages	35,599 24	29,961 55	49,258 35	8,244 71
Street Construction	33,343 21	3,272 35	46,250 65	58,375 67
Edgestones and Sidewalks	24,999 95	29,998 82	29,999 13	31,480 36
Subway at Raymond Street				882 00
Sewer Construction—				
General	7,509 72	27,156 29	49,555 00	19,840 12
Improved Sewerage	61,997 27	47,821 13	35,730 95	55,480 74
Separate System of Drainage			19,551 26	23,195 32
Cambridge Bridge	202,095 67	154,129 10	354,442 45	240,227 35
Paving Harvard Bridge	25,841 97	283 96		
Water Works Construction	32,943 59	26,353 55	21,851 98	251,232 57
Addition to Roberts School House				20,857 49
New School House and Land, Fletcher	11,257 75	31,025 35	48,973 55	
New School House, Washington	3,275 59	19,137 41	4,698 05	
" " " Kelley	18,958 66	59,980 67	789 87	88 92
" " " Houghton			8,311 75	87,815 26
Addition and Equipment of Rindge Manual Training School			7,144 98	19,551 01
Addition to Public Library	28,337 22	987 59	371 79	
Park Construction, General	55,528 94	54,547 05	25,576 13	50,467 17
Total	$543,139 30	$487,469 82	$720,163 43	$880,340 82

RECAPITULATION.

ORDINARY.	1902 Expenditures	1903 Expenditures	1904 Expenditures	1905 Expenditures
General Administration	$96,339 95	$95,194 46	$108,704 81	$109,393 91
Public Safety. (Protection of Life, Health and Property	337,967 20	305,647 13	314,015 29	341,145 07
Public Charity	93,920 80	93,929 85	76,771 06	71,806 00
Public Highways and Sanitation	441,130 35	425,504 51	493,426 39	487,099 03
Municipal Enterprises	70,945 97	71,215 02	105,137 03	107,808 20
Public Education, Libraries, etc	459,049 07	479,755 45	514,904 32	515,642 36
Public Recreation	127,073 59	64,975 07	71,649 34	79,892 18
Public Indebtedness. (Transactions during the year)	281,842 12	279,656 20	329,920 08	282,929 67
Public Interest	344,065 76	356,396 13	356,521 37	371,747 33
Public Taxation	197,142 00	242,186 04	298,477 54	308,696 37
Special Assessments. (Street Betterments, etc.)				
Unclassified	10 98			
Total of Ordinary Expenditures	$2,449,487 79	$2,414,459 86	$2,669,527 23	$2,676,160 12

EXTRAORDINARY.	1902 Expenditures	1903 Expenditures	1904 Expenditures	1905 Expenditures
General Administration	$395 00			
Public Safety. (Protection of Life, Health and Property)	1,055 52	$2,815 00	$17,657 54	$12,602 13
Public Charity				
Public Highways and Sanitation	391,387 03	292,623 20	584,787 79	437,726 27
Municipal Enterprises	32,943 59	26,353 55	21,851 98	251,232 57
Public Education, Libraries, etc	61,829 22	111,131 02	70,289 89	128,312 68
Public Recreation	55,528 94	54,547 05	25,576 13	50,467 17
Public Indebtedness. (Transactions during the year)				
Public Interest				
Public Taxation				
Special Assessments. (Street Betterments, etc.)				
Total of Extraordinary Expenditures.	$543,139 30	$487,469 82	$720,163 43	$880,340 82

SCHEDULE A-VIII

APPROPRIATIONS AND EXPENDITURES

No. 1

General Administration

No. 1. GENERAL ADMINISTRATION.

MAYOR'S DEPARTMENT. (1.1)

SALARIES.

Appropriation		$5,500 00

EXPENDED.

For salaries of :—			
Mayor, Augustine J. Daly	$3,500 00		
Clerk, Edward A. Counihan	1,200 00		
Stenographer, Georgie W. Sanborn	790 00		
Total			$5,490 00
Surplus of appropriation relinquished to General Treasury			$10 00

GENERAL EXPENSES.

Appropriation			$500 00

EXPENDED.

For advertising, Cambridge Chronicle		$9 25	
Binding, Boston Bookbinding Co.		2 65	
Carriage hire :—			
Cambridge Coach Co.	$66 50		
Fred D. Norton	19 00		
G. F. Whiting & Co.	66 50		
		152 00	
Directory, W. A. Greenough & Co.		3 50	
Services, sending invitations to inauguration :—			
J. H. Webber		7 00	
Services, reporting testimony at hearings :—			
Maude L. Gray	$10 00		
G. W. Sanborn	10 00		
		20 00	
Stationery, printing, etc. :—			
A. R. Andrews	$12 50		
Cambridge Chronicle	8 75		
Cotton & Gould	13 75		
J. A. Cummings Printing Co.	25 92		
J. Frank Facey	6 50		
John H. Hezlitt	1 50		
Samuel Ward Co.	32 75		
		101 67	
Amounts carried forward		$296 07	$500 00

General Administration — Continued.

MAYOR'S DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .	$296 07	$500 00
For transfer :—		
Supplies, Postage and Stationery Account	120 59	
Telephone service	83 34	
Total		500 00

COUNCILS. (1.2)

CITY MESSENGER'S DEPARTMENT.

SALARIES.

Appropriation	$1,782 00

EXPENDED.

For salaries of : —		
City Messenger, Frank T. Evans .	$1,200 00	
Assistant, Wm. E. McAnaul . .	580 00	
Total		1,780 00
Surplus of appropriation relinquished to General Treasury		$2 00

GENERAL EXPENSES.

Appropriation	$200 00

EXPENDED.

For car tickets : —			
Boston Elevated Railway Co .		$35 00	
Expressage : —			
American Express Co. . . .	$4 17		
American Pneumatic Service Co. .	30		
P. Biggin	5 50		
Savage & Son	5 80		
Sawin's Express	2 55		
		18 32	
Glass, E T. Bynner		30	
Rent of post office box . . .		8 50	
Stationery, printing, etc. : —			
Cambridge Chronicle . . .	$4 00		
J. Frank Facey	1 75		
		5 75	
Subscriptions, Geo. E. French . .		8 85	
Transfer : —			
Supplies, Postage and Stationery Account		123 28	
Total			200 00

General Administration — Continued.

COUNCILS. (1.2)

CLERK OF COMMITTEES' DEPARTMENT.

SALARIES.

Appropriation		$3,300 00
EXPENDED.		
For salaries of :—		
Clerk of Committees, John McDuffie	$2,400 00	
Assistant, Eben W. Pike	900 00	
Total		3,300 00

GENERAL EXPENSES.

Appropriation			$350 00
EXPENDED.			
For advertising, Cambridge Chronicle		$18 75	
Binding, David Farquhar		6 00	
Directories :—			
W. A. Greenough & Co.	$7 00		
Sampson & Murdock Co.	6 00		
		13 00	
Map, Geo. H. Walker & Co.		2 00	
Stationery, printing, etc. :—			
Adams, Cushing & Foster	$3 75		
Cambridge Chronicle	90 00		
Cotton & Gould	23 75		
		117 50	
Sundries		2 50	
Telephone service		70 26	
Transfer :—			
Supplies, Postage and Stationery Account		100 43	
Typewriter repairs :—			
The Typewriter Exchange		10 50	
Typewriting :—			
Helen L. Brady	$7 00		
Elizabeth M. Connell	2 00		
		9 00	
Total			349 94
Surplus of appropriation relinquished to General Treasury			06

General Administration — Continued.

COUNCILS. (1.2)

CITY COUNCIL EXPENSES.

Appropriation				$5,000 00
	EXPENDED.			
For salaries of: —				
Clerk, Edw. A. Counihan		$500 00		
Page, Wm. E. McAnaul		100 00		
			$600 00	
General expenses: —				
Car tickets: —				
Boston Elevated Railway Co.		$500 00		
Decorating on occasion of visit of President Roosevelt: —				
Wm. E Doyle		50 00		
Expressage, Savage & Son		2 50		
Entertaining visitors, Mansion House		12 00		
Flowers for funerals: —				
M. B. Bunker	$25 00			
Wm. E. Doyle	25 00			
		50 00		
Gavels: —				
Standard Turning Works	$1 25			
C. A. Twitchell & Co.	6 00			
		7 25		
			621 75	
Ringing bells on holidays			39 00	
Expenses of Inauguration Day: —				
Carriage hire: —				
Cambridge Coach Co.	$10 00			
T. W. Hillier & Co.	3 00			
		$13 00		
Floral decorations, Wm. E. Doyle		50 00		
Use of chairs, Pettingill & Pear		12 00		
			75 00	
Expenses of committees: —				
Car fares, Frank T. Evans		$33 48		
Carriage hire: —				
J. J Callahan	$54 00			
Cambridge Coach Co.	6 00			
John J. Corkery	13 00			
Chas. W. Dailey	21 50			
P. A. Dolan	5 00			
John J. Donahue	12 00			
Geo. E Francis	68 00			
T. W. Hillier & Co.	38 00			
Denis Hourihan	8 00			
Amounts carried forward	$225 50	$33 48	$1,335 75	$5,000 00

General Administration — Continued.

CITY COUNCIL EXPENSES — Continued.

Amounts brought forward	$225 50	$33 48	$1,335 75	$5,000 00
For John T. Lawton	14 00			
H. K. Parsons & Co.	10 00			
D. Reardon	14 00			
Soden St. Stable	34 00			
G. F Whiting & Co.	10 00			
G. W. Worster	8 00			
		315 50		
Refreshments: —				
Mansion House	$475 02			
A. L. Noyes	20 75			
Riverbank Court	64 70			
		560 47		
Visit to New York of Committee on Rapid Transit		234 55		
			1,144 00	
Expenses of special committees: —				
Investigating charges of dishonesty against member of City Council: —				
Lunches, Mansion House		$35 60		
Stenographic report: —				
Moore & McDonough		267 40		
Summoning witnesses: —				
James E. Lennon	$1 35			
John T. Lynch	9 45			
Chas. F. Manning	13 50			
		24 30		
			327 30	
Hearing in case of Patrolman McArthur: —				
Binding, Boston Bookbinding Co.		$1 00		
Refreshments, Mansion House		65 40		
Stenographic reports: —				
Bacon & Burpee	$78 50			
L. W. Richardson	71 07			
		149 57		
Summons, witness fees, etc.: —				
Edward Grant	$7 75			
James E. Lennon	25 05			
		32 80		
			248 77	
Hearing in case of Weeks and Scott: —				
Carriage hire: —				
Cambridge Coach Co.	$5 00			
John J Corkery	6 00			
Chas. W. Dailey	3 00			
Geo. E. Francis	3 00			
T. W. Hillier & Co.	16 00			
G. F. Whiting & Co.	6 00			
John T. Lawton	3 00			
		$42 00		
Amounts carried forward		$42 00	$3,055 82	$5,000 00

General Administration — Continued.

CITY COUNCIL EXPENSES — Continued.

Amounts brought forward . .	$42 00	$3,055 82	$5,000 00
For counsel fees :—			
James F. Aylward . $400 00			
Jos. A. Dennison . 400 00			
James R. Murphy . 500 00			
1,300 00			
Refreshments, Mansion House .	224 30		
Reporting and transcribing testimony :—			
Maude L. Gray	436 00		
Summons, witness fees, etc. :—			
James E. Lennon . . .	43 35		
		2,045 65	
Investigating charges against Sergeant Gordon :—			
Refreshments, Mansion House .	$13 55		
Stenographic report :—			
E. M. McDonough . . .	43 00		
		56 55	
Hearing before Committee on Police :—			
Stenographic report :—			
Wm. F. Murray	$260 25		
Summoning witnesses :—			
Chas. F. Manning . . .	42 74		
		302 99	
Expenses of City Clerk :—			
Advertising :—			
Cambridge Chronicle . $44 25			
Cambridge Sentinel Publishing Co. . 8 00			
Cambridge Tribune . 13 50			
Times Publishing Co. . 8 00			
	$73 75		
Binding :—			
Boston Bookbinding Co. . .	88 60		
Books :—			
Com. of Mass. . . $2 00			
Wm. J. Nagel . . 13 00			
West Publishing Co. . 7 00			
	22 00		
Engrossing resolutions :—			
Henry W. Stone . . $6 00			
Frank L. Wells . . 71 00			
	77 00		
Expressage, Sawin's Express . .	2 35		
Insurance on City Documents at bindery :—			
Darling & Russell . . .	5 46		
Amounts carried forward . . .	$269 16	$5,461 01	$5,000 00

General Administration — Continued.

CITY COUNCIL EXPENSES — Concluded.

Amounts brought forward . .	$269 16	$5,461 01	$5,000 00
For "Legislative Documents": —			
Marshall Thompson . . .	30 00		
Letter cases and boxes for same: —			
Samuel Ward Co.	51 00		
Making half-tones and printing: —			
Jas. S. Conant Co.	83 00		
Photographs: —			
H. W. Tupper . . $4 00			
Whitney & Son . . 25 00			
———	29 00		
Printing: —			
Cambridge Chronicle . $224 90			
Caustic-Claflin Co. . . 27 25			
J. A. Cummings Printing Co. . . . 508 15			
J. Frank Facey . . 347 75			
E. L. Grimes Co. . . 211 20			
Monk & Bordley . . 2 00			
———	1,321 25		
Printing City Documents: —			
J. A. Cummings Printing Co. .	1,602 61		
Repairing die of City Seal: —			
Boston Badge Co.	12 50		
Transfer: —			
Supplies, Postage and Stationery Account	28 45		
	———	3,426 97	
Total			8,887 98
Excess of expenditures over appropriation . . .			$3,887 98
Transfer to this department from Contingent Fund .			3,900 00
Balance relinquished to General Treasury . .			$12 02

COUNCILS. (1.2)

CITY CLERK'S DEPARTMENT.

SALARIES.

Appropriation		$6,660 00
EXPENDED.		
For salaries of: —		
City Clerk, Edw. J. Brandon . .	$3,000 00	
Assistant City Clerk, Albert M. Pear	1,400 00	
Amounts carried forward . . .	$4,400 00	$6,660 00

General Administration — Continued.

CITY CLERK'S DEPARTMENT, SALARIES — Concluded.

Amounts brought forward		$4,400 00	$6,660 00
For clerical assistance:—			
Amanda R. Murray	$700 00		
Helen L. Brady	580 00		
Nellie B Buckley	162 25		
Elizabeth M. Connell	133 75		
Margaret A. Dayton	267 44		
Katherine E Glynn	33 25		
Anne Jacobs	250 00		
		2,126 69	
Total			6,526 69
Surplus of appropriation			$133 31
Transfer from this account to General Expenses			100 00
Balance relinquished to General Treasury			$33 31

GENERAL EXPENSES.

Appropriation	$1,800 00

Department Receipts Carried to General Treasury.

For cemetery deeds	$10 25
Certificates from record	133 25
Dog licenses	467 40
Liquor licenses	60 00
Married women's certificates	6 75
Mortgages, assignments of wages, etc.	601 25
Sale of waste paper	13 25
Witness fees	4 80
Sundries	75
	$1,297 70

EXPENDED.

For advertising:—			
Cambridge Chronicle	$4 50		
Cambridge Sentinel Publishing Co.	11 00		
Cambridge Tribune	4 50		
Times Publishing Co.	4 50		
		$24 50	
Binding:—			
Boston Bookbinding Co.	$4 00		
J. H. H. McNamee Co.	26 05		
		30 05	
Canvassing for births:—			
Richard L Barry	$45 00		
Thomas J. Conrick	9 00		
Warren Ivers	36 00		
James E. Lennon	45 00		
Amounts carried forward	$135 00	$54 55	$1,800 00

General Administration — Continued.

CITY CLERK'S DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward . .	$135 00	$54 55	$1,800 00
For James P. Mansfield . . .	54 00		
Edw. H. McCarron . . .	57 00		
Wm. F. McCormick . . .	42 00		
Geo. H. Munroe	45 00		
Patrick J. Murphy	69 00		
Edwin A. Peterson	16 50		
Edward J. Sweeney . . .	57 00		
Patrick J. White	45 00		
		520 50	
Chair, Stephen H. Harrington . .		8 25	
Directory, W. A Greenough & Co. .		3 50	
Document files, Moynahan & Co. .		20 00	
Law books and legislative documents :—			
Wm. J Nagel	$13 50		
Geo. B. Reed	6 00		
		19 50	
Making locks for bookcases :—			
L. L. Phipps & Co.		26 30	
Official bonds : —			
John J. Ahern	$32 40		
Geo. H. Carrick	12 00		
		44 40	
Posting and serving notices :—			
James E. Lennon	$14 50		
Chas. F. Manning	3 00		
		17 50	
Recording documents :—			
E. O. Childs, Register . . .		23 12	
Reporting births, sundry physicians .		370 00	
Services, examining leather for City Documents :—			
Richard M. Fitzmaurice . .		3 00	
Stationery, printing and office supplies :—			
C. S. Binner Corporation . .	$3 00		
Boston Stencil and Stamp Works .	2 25		
Cambridge Chronicle . . .	32 00		
Caustic-Claflin Co.	29 00		
Cotton & Gould	90 50		
J. A. Cummings Printing Co. .	62 00		
J. Frank Facey	46 70		
C. G. Gilbert	4 00		
Edw. W. S. Jones	28 25		
Macey-Wernicke Co. . . .	31 00		
Henry M. Meek Publishing Co. .	9 00		
Times Publishing Co. . . .	13 50		
Samuel Ward Co.	19 85		
Amounts carried forward . . .	$371 05	$1,110 62	$1,800 00

General Administration — Continued.

CITY CLERK'S DEPARTMENT, GENERAL EXPENSES — — Concluded.

Amounts brought forward . .	$371 05	$1,110 62	$1,800 00
Louis F. Weston	17 00		
Edw. W. Wheeler	21 00		
Sundry persons	2 44		
		411 49	
Subscription, Cambridge Chronicle .		2 50	
Sundries		8 58	
Telephone service		139 50	
Transfer:—			
Supplies, Postage and Stationery Account		137 59	
Verifying and obtaining facts for record:—			
Wm. F. McCormick . . .		88 87	
Total			1,899 15
Excess of expenditures over appropriation . . .			$99 15
Transfer to this account from Salaries . . .			100 00
Balance relinquished to General Treasury . . .			85

LAW DEPARTMENT. (1.3)

SALARIES.

Appropriation	$4,100 00

EXPENDED.

For salaries of: —		
City Solicitor, G. A. A. Pevey .	$3,499 96	
Stenographer, Arthur C. Holden .	726 00	
Total		4,225 96
Excess of expenditures over appropriation . . .		$125 96
Transfer to this account from General Expenses .		125 96

GENERAL EXPENSES.

Appropriation	$700 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For services of City Solicitor: —	
Water Department	$500 00

EXPENDED.

For binding, Little, Brown & Co. .	$20 40	
Cash expended for sundries: —		
G. A. A. Pevey	42 73	
Amounts carried forward . . .	$63 13	$700 00

General Administration — Continued.

LAW DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$63 13	$700 00
For directory, Sampson & Murdock Co.		6 00	
Evidence, Henry P. Jones . .		5 00	
Law books, Wm. J. Nagel . .		12 00	
Office rent, Bangs & Wells . .		250 00	
Photographs, Whitney & Son . .		5 00	
Serving notices, Walter C. Wardwell		4 20	
Services examining titles, etc.: —			
Wm. V. Thompson . . .	$5 00		
Geo. D. Wildes	20 00		
		25 00	
Services in appraisal, David Proudfoot		25 00	
Stationery, printing, etc.: —			
T. H. Ball	$31 98		
Cambridge Chronicle . . .	31 50		
Geo. E. Crosby & Co. . . .	22 00		
Kee Lox Manufacturing Co. . .	4 00		
		89 48	
Subscription: —			
The Review and Record Co. . .		5 00	
Taking depositions, C. H. Dillon .		17 60	
Telephone service		40 00	
Transfer: —			
Supplies, Postage and Stationery Account		26 03	
Typewriter repairs: —			
Oliver Typewriter Co. . . .		60	
Total			574 04
Surplus of appropriation			$125 96
Transfer from this account to Salaries . . .			125 96

FINANCE. (1.4)

AUDITING DEPARTMENT.

SALARIES.

Appropriation		$3,900 00
EXPENDED.		
For salaries of: —		
City Auditor, Harry T. Upham .	$2,500 00	
Amounts carried forward . . .	$2,500 00	$3,900 00

General Administration — Continued.

AUDITING DEPARTMENT, SALARIES — Concluded.

Amounts brought forward		$2,500 00	$3,900 00
Clerical assistance :—			
Mabel W. Hall	$787 50		
Mary A. McKenzie	525 00		
		1,312 50	
Total			3,812 50
Surplus of appropriation relinquished to General Treasury			$87 50

GENERAL EXPENSES.

Appropriation			$350 00
EXPENDED.			
For atomizer and disinfectant :—			
Wm. B. Hunt & Co.		$1 04	
Binding, J. H. H. McNamee Co.		7 50	
Cleaning safe, Mrs. McGoldrick		3 00	
Directory, W. A. Greenough & Co.		3 50	
Document files :—			
Art Metal Construction Co.		53 00	
Expressage :—			
Hayes Express	$0 15		
Savage & Son	15		
		30	
Labor, T. J. Denton		3 00	
Map, Geo. H. Walker & Co.		2 00	
"Municipal Accounting" :—			
Harry T. Upham		30 00	
Official bond, Arthur R. Henderson		30 00	
Repairing numbering machine :—			
Thos. A. Upham		1 00	
Stationery, printing and office supplies :—			
J. Frank Facey	$30 50		
Globe-Wernicke Co.	12 22		
Will J. Hayner	1 75		
Cotton & Gould	14 50		
John H. Hezlitt	6 50		
Postmaster, Boston	42 40		
		107 87	
Subscriptions :—			
Cambridge Tribune	$2 50		
National Municipal League	5 00		
		7 50	
Telephone service		53 95	
Transfer :—			
Supplies, Postage and Stationery Account		46 34	
Total			350 00

General Administration — Continued.

FINANCE. (1.4)

ASSESSORS' DEPARTMENT.

SALARIES.

Appropriation		$13,000 00

EXPENDED.

For salaries of Assessors :—			
Wm. F. Brooks	$2,000 00		
Jeremiah F. Donovan	2,000 00		
Daniel B. Shaughnessy	2,000 00		
		$6,000 00	
Assistant Assessors :—			
James R. Boyd	$175 00		
Chas. W. Callahan	175 00		
James J. Culhane	175 00		
Thomas Gallagher	175 00		
Warren Ivers	175 00		
John E. Kelley	175 00		
Felix C. McBride	175 00		
Chas. E. McCarthy	175 00		
Geo. H. Munroe	175 00		
Patrick J. White	175 00		
Franklin H. Wright	175 00		
		1,925 00	
Clerical assistance :—			
Carrie A. Estes	$790 00		
Kittie L. Magoun	790 00		
Jessie I. R. Waterman	790 00		
Temporary clerks	2,949 88		
		5,319 88	
Total			13,244 88
Excess of expenditures over appropriation			$244 88
Additional appropriation			250 00
Balance relinquished to General Treasury			$5 12

GENERAL EXPENSES.

Appropriation			$1,500 00

EXPENDED.

For advertising :—			
Cambridge Chronicle		$38 00	
Book racks :—			
John Quin & Son		30 00	
Carriage hire :—			
Cambridge Coach Co.	$5 00		
F. R. Nickerson	2 00		
G. F. Whiting & Co.	20 00		
		27 00	
Amounts carried forward		$95 00	$1,500 00

General Administration — Continued.

ASSESSORS' DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward		$95 00	$1,500 00
For car tickets :—			
Boston Elevated Railway Co.		20 00	
Directories :—			
W. A. Greenough & Co.	$3 50		
Sampson & Murdock Co.	6 00		
		9 50	
Desk, Doten-Dunton Desk Co.		15 00	
Expressage, Savage & Son		95	
Chairs and table, Worcester Bros.		25 50	
List, F. S. Blanchard & Co.		5 37	
Services as experts : —			
Geo. H Carrick	$50 00		
S. S. Gleason	100 00		
R. C. Grovestein	50 00		
Arthur R. Henderson	50 00		
Chas. W. Morris	175 00		
Thomas F. Myles	100 00		
Chas H Thurston	100 00		
		625 00	
Services as constables : —			
James E. Lennon	$3 00		
Walter C. Wardwell	15 50		
		18 50	
Services and testimony : —			
E. F. Bowker		10 00	
Stationery, printing and office supplies : —			
Cambridge Chronicle	$644 26		
Cotton & Gould	269 50		
J. Frank Facey	40 00		
Edw. W. S Jones	37 00		
Smith Premier Typewriter Co.	3 50		
		994 26	
Subscription : —			
The Review & Record Co.		5 00	
Stenographic reports : —			
H. W. Gleason	$237 20		
Arthur C Holden	33 75		
William N. Todd	8 50		
		279 45	
Telephone service		67 01	
Transfer : —			
Supplies, Postage and Stationery Account		77 63	
Total			2,248 17
Excess of expenditures over appropriation			$748 17
Additional appropriation			750 00
Balance relinquished to General Treasury			$1 83

General Administration — Continued.

FINANCE. (1.4)

ASSESSORS' PLANS.

Appropriation		$300 00
EXPENDED.		
For services of engineers	$298 79	
Total		298 79
Surplus of appropriation relinquished to General Treasury		$1 21

FINANCE. (1.4)

TREASURY DEPARTMENT.

SALARIES.

Appropriation			$10,500 00
EXPENDED.			
Eor salaries of: —			
City Treasurer, Wm. W. Dallinger		$3,000 00	
Clerks: —			
Elbridge G. Stevens	$1,590 00		
Enoch J. Howlett	1,264 00		
J. Henry Webber	1,264 00		
Philip B Dallinger	950 00		
Elizabeth E Estes	790 00		
Ella M Chandler	596 00		
M. Alice Dow	632 00		
Temporary clerks	676 52		
		7,762 52	
Total			10,762 52
Excess of expenditures over appropriation			$262 52
Additional appropriation			450 00
			$187 48
Transfer from this account to General Expenses			187 48

GENERAL EXPENSES.

Appropriation		$5,800 00
DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.		
For advertising	$638 43	
Deeds	236 00	
Posting	63 00	
Amounts carried forward	$937 43	$5,800 00

General Administration — Continued.

TREASURY DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward	$937 43		$5,800 00
For recording	18 90		
Release	5 00		
Tax sale descriptions	385 00		
Summonses	1,709 34		
	$3,055 67		
EXPENDED.			
For advertising: —			
Boston Daily Advertiser	$31 20		
Cambridge Chronicle	499 50		
		$530 70	
Boxes, Place Box Co.		4 00	
Carriage hire: —			
M. J. Fairbanks	$230 00		
T. W. Hillier	166 00		
B. S. Walker	185 00		
		581 00	
Commissions for collecting taxes: —			
Joseph Fox	$665 38		
Edward Grant	267 00		
Warren Ivers	970 44		
Thos. J. McGowan	255 50		
D. J. Moynahan	362 71		
John J. O'Brien	85 00		
		2,606 03	
Directories: —			
W. A. Greenough & Co.	$7 00		
Sampson & Murdock Co.	6 00		
		13 00	
Distributing notices: —			
Joseph Fox	$40 00		
Warren Ivers	40 00		
		80 00	
Official bond: —			
American Surety Co. of New York		160 00	
Postage, F. M. Small, Supt.		1,440 30	
Recording deeds, E. O. Childs, Register		28 95	
Stamps and repairs: —			
Boston Stencil & Stamp Works		3 80	
Stationery, printing, etc.: —			
American Bank Note Co.	$181 00		
Lyman B. Brooks	66 00		
Cambridge Chronicle	12 25		
Wm H. Claflin & Co.	43 40		
Cotton & Gould	1 60		
J. A. Cummings Printing Co.	10 93		
Globe-Wernicke Co.	3 08		
Edw. W. S. Jones	467 50		
Amounts carried forward	$785 76	$5,447 78	$5,800 00

General Administration — Continued.

TREASURY DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .	$785 76	$5,447 78	$5,800 00
For J. L. McIntosh	10 40		
Monk & Bordley	254 50		
Times Publishing Co. . . .	6 50		
		1,057 16	
Subscriptions, Geo. E. French . .		6 00	
Telephone service		136 61	
Transfer :—			
Supplies, Postage and Stationery Account		46 60	
Total			6,694 15
Excess of expenditures over appropriation . . .			$894 15
Additional appropriation		$706 67	
Transfer from Treasury Dep't Salaries to General Expenses		187 48	
			894 15

FINANCE. (1.4)

SINKING FUND OFFICIALS.

Appropriation $365 00

EXPENDED.

For salaries of : —			
Treasurer, Wm. W. Dallinger .	$300 00		
Clerk, John McDuffie . . .	25 00		
		$325 00	
Rent of box, Boston Safe Deposit Co.		40 00	
Total			365 00

ELECTIONS. (1.5)

ELECTION EXPENSES, CITY CLERK.

Appropriation $8,500 00

DEPARTMENT RECEIPTS' CARRIED TO GENERAL TREASURY.

Rebate on bill	$200 00

EXPENDED.

For election officers	$4,639 50		
Precinct men	270 00		
Bell ringers	26 00		
Special officers	75 00		
		$5,010 50	
Amounts carried forward . .		$5,010 50	$8,500 00

General Administration — Continued.

ELECTION EXPENSES, CITY CLERK — Continued.

Amounts brought forward . .		$5,010 50	$8,500 00
For clerical assistance: —			
Nellie B Buckley	$62 43		
Elizabeth M. Connell . . .	35 50		
Margaret A. Dayton . . .	51 39		
Katharine E Glynn . . .	91 63		
Rebecca S. Harries . . .	6 50		
Anne Jacobs	30 00		
Ella A. Lothrop	14 25		
		291 70	
Advertising: —			
Cambridge Chronicle . . .	$99 25		
Cambridge Sentinel Publishing Co.	98 75		
Cambridge Tribune . . .	98 75		
Review Publishing Co. . . .	30 00		
Times Publishing Co. . . .	101 75		
		428 50	
Barges: —			
Wm. F Colby	$35 00		
Mrs. J. Nixon	190 00		
		225 00	
Carriage hire: —			
F. R. Nickerson	$8 00		
G. F. Whiting & Co. . . .	4 00		
		12 00	
Car tickets: —			
Boston Elevated Railway Co. .		30 00	
Cases, Place Box Co. . . .		30 00	
Caucus laws, Richard L. Gay . .		16 50	
Design for ballot, F. B. Hawley .		5 00	
Expressage: —			
American Express Co. . . .	$1 40		
Sawin's Express	1 30		
		2 70	
Hardware and supplies: —			
E. T. Bynner	$9 35		
Thomas J. Daly	2 00		
		11 35	
Installing electric lights: —			
Warren W. Scott		20 00	
Labor: —			
Thomas J. Denton	$115 69		
William Hayes	2 00		
		117 69	
Lunches: —			
Oak Grove Creamery Co. . .	$2 50		
W. S. Sprague	40 36		
		42 86	
Money and letter boxes: —			
B. E Leven		3 25	
Amounts carried forward . . .		$6,247 05	$8,500 00

General Administration — Continued.

ELECTION EXPENSES, CITY CLERK — Continued.

Amounts brought forward . .		$6,247 05	$8,500 00
For mounting lists :—			
David Farquhar	$1 10		
J. H. H. McNamee Co. . . .	24 00		
		25 10	
Paper for ballots :—			
A. Storrs & Bement Co. . .		73 14	
Posting and serving notices :—			
James E. Lennon	$5 00		
Geo. H. Munroe	13 50		
Fred E. Thyng	11 00		
		29 50	
Repairing ballot boxes and signs :—			
Edgar Hall	$10 40		
Wm H. Norris	35 11		
Thomas Sweeney	40 75		
		86 26	
Rent of hall, Malta Temple Asso'n .		40 00	
Services, John Good		3 00	
Services at recount, Edw. F. Walsh		2 38	
Serving certificates of election :—			
James E Lennon		5 00	
Stationery, printing, etc. :—			
Fred L. Beunke	$2 25		
Boston Badge Co.	60 15		
Boston Stencil & Stamp Works .	10 00		
Cambridge Chronicle . . .	47 75		
Casey, Bigley & Co. . . .	21 00		
Caustic-Claflin Co.	109 25		
Cotton & Gould	92 70		
J. A. Cummings Printing Co. .	1,068 81		
J. Frank Facey . . .	383 00		
Samuel Ward Co.	8 00		
Louis F. Weston	10 75		
Edw W. Wheeler	64 50		
Wright & Potter Printing Co. .	1 50		
		1,879 66	
Teaming, P. Biggin		23 00	
Telephone service		10 41	
Transfers :—			
Supplies, Postage and Stationery Account	$86 00		
Electrical Work, Electrical Dep't .	90		
		86 90	
Use of horse, Soden St. Stable . .		3 00	
Verifying facts for record :—			
Wm. F. McCormick . . .		18 00	
Preparing lists, Wm. F. McCormick		54 00	
Amounts carried forward . . .		$8,586 40	$8,500 00

General Administration — Continued.

ELECTION EXPENSES, CITY CLERK — Concluded.

Amounts brought forward . .		$8,586 40	$8,500 00
For hearing before Ballot Law Commissioners: —			
Cash expended for witness fees: —			
Edward J. Brandon . . .	$130 40		
Clerical assistance: —			
Nellie B. Buckley .	$2 00		
Margaret A. Dayton .	2 00		
	4 00		
Printing, J. Frank Facey . .	4 00		
Stenographer: —			
Elizabeth M. Connell . . .	60 00		
Summoning witnesses: —			
Edward Grant . .	$13 50		
James E. Lennon .	20 75		
John T. Lynch . .	34 25		
Chas. F. Manning .	3 75		
	72 25		
		270 65	
Total			8,857 05
Excess of expenditures over appropriation . . .			$357 05
Additional appropriation			375 00
Balance relinquished to General Treasury . . .			$17 95

ELECTIONS. (1.5)

ELECTION EXPENSES, REGISTRARS OF VOTERS.

Appropriation			$4,350 00
EXPENDED.			
For salaries of Registrars of Voters and Clerk of Board: —			
Peter B. Bleiler	$500 00		
J. Frank Facey	500 00		
John P. McCormick . . .	500 00		
Isaac S. Pear	600 00		
		$2,100 00	
Clerical assistance: —			
Ella A. Lothrop	$623 00		
Isabel C. Melville	8 50		
Marion Pike	11 50		
		643 00	
Amounts carried forward . . .		$2,743 00	$4,350 00

General Administration — Continued.

ELECTION EXPENSES, REGISTRARS OF VOTERS — Continued.

Amounts brought forward		$2,743 00	$4,350 00
For services at recount: —			
Wm. E. Burrage	$4 75		
Thos. J. Conrick	12 50		
Thos. J. Denton	11 80		
Jas. V. Duffy	4 25		
Wm. Earl	7 50		
Frank Fabry	4 75		
John W. Garvin	9 25		
John R. Giles	7 50		
John H. Gleason	12 00		
Chas. H. Heileman	4 25		
Warren Ivers	3 25		
Chas. F Lewis	12 00		
Geo. B. Lothrop	4 25		
John Lynch	4 50		
Wm J. Lynch	4 25		
John H. Mahoney	7 50		
Walter H. Mitchell	12 00		
Dennis J. Moynahan	3 25		
Geo. H. Munroe	4 25		
Patrick J. Murphy	8 75		
Timothy O'Brien	4 25		
William D. Parks	4 50		
Edwin A Peterson	4 25		
Joseph J Reed	12 00		
Thomas Reed	4 50		
Frank J. Smith	7 50		
Anthony J. Sylvester	4 25		
Edward F. Wadden	4 50		
Chas. H Wiggin	12 00		
		200 30	
Advertising: —			
Cambridge Chronicle	$20 00		
Cambridge Sentinel Publishing Co.	18 00		
Cambridge Tribune	18 00		
Times Publishing Co.	18 00		
		74 00	
Binding and mounting lists: —			
David Farquhar	$12 50		
J. H. H. McNamee Co.	13 20		
		25 70	
Carriage hire: —			
F. R. Nickerson	$7 50		
G. F. Whiting & Co.	3 00		
		10 50	
Directory, W. A. Greenough & Co.		3 50	
Lunch, Wescott Bros.		12 00	
Placing and removing list boards: —			
W. H. Norris		55 00	
Preparing and posting lists: —			
Geo. H Munroe		25 50	
Serving notices, Walter C. Wardwell		7 50	
Amounts carried forward		$3,157 00	$4,350 00

General Administration — Continued.

ELECTION EXPENSES, REGISTRARS OF VOTERS — Concluded.

Amounts brought forward . .		$3,157 00	$4,350 00
For stationery, printing, etc. :—			
Cambridge Chronicle . . .	$7 75		
James W. Bean	907 50		
Cotton & Gould	35		
Edw. W. S. Jones	35 00		
A. Storrs & Bement Co. . .	8 05		
Louis F. Weston	8 75		
		967 40	
Teaming, P. Biggin		4 25	
Telephone service		26 60	
Transfer :—			
Supplies, Postage and Stationery Account		25 45	
Use of horse and buggy :—			
F. R. Nickerson		8 00	
Total			4,188 70
Surplus of appropriation relinquished to General Treasury			$161 30

ELECTIONS. (1.5)

ELECTION EXPENSES, SUPERINTENDENT OF BUILDINGS.

Appropriation			$2,400 00
EXPENDED.			
For carpentry :—			
C. H. Callahan & Son . . .	$69 60		
W. Fillmore Co.	29 72		
C. T. Grames	30 11		
W. H. Norris	10 50		
John Quin & Son	99 33		
		$239 26	
Lamps, lighting, etc. :—			
F. Bryant & Co.	$2 50		
E. T. Bynner	1 40		
Cambridge Electric Light Co. .	2 54		
Clark & Mills Electric Co. . .	18 00		
Geo. F. Dickson	18 10		
		42 54	
Operating elevator, Edw. F. Walsh		4 00	
Preparing rooms for voting, and janitor service, sundry persons		273 10	
Rent :—			
Robert Baird	$10 00		
Cambridge Athletic Association .	150 00		
Chas. Beck Post, 56, G. A. R. .	135 00		
Citizens' Trade Association . .	75 00		
Amounts carried forward . . .	$370 00	$558 90	$2,400 00

General Administration — Continued.

ELECTION EXPENSES, SUPERINTENDENT OF BUILDINGS — Concluded.

Amounts brought forward . .	$370 00	$558 90	$2,400 00
For B. E. Leven	45 00		
Mt. Sinai Building Association .	80 00		
J. F. Noera	120 00		
John F. O'Brien	75 00		
Odd Fellows' Hall Association .	120 00		
P. Quain & Sons	155 00		
St. John's Literary Institute . .	325 00		
P. J. White	60 00		
		1,350 00	
Setting up and removing voting booths and platforms :—			
Chas. H. Callahan & Son . .	$115 65		
C. T. Grames	22 54		
W. H. Norris	18 68		
Thomas Powers	84 95		
John Quin & Son	89 35		
		331 17	
Teaming booths :—			
P. Biggin	$137 00		
Jeremiah Sullivan	10 00		
		147 00	
Use of chairs and table, Worcester Bros.		6 20	
Total			2,393 27
Surplus of appropriation relinquished to General Treasury			$6 73

CITY HALL. (1.6)

CITY BUILDING ACCOUNT.

SALARIES.

Appropriation			$9,300 00
EXPENDED.			
For services of : —			
Janitors : —			
G. W. Bates	$832 00		
Chas A. Gay	936 00		
Peter Kelley	832 00		
J. J. McCarthy	728 00		
		$3,328 00	
Assistant janitor, James McVey .		626 00	
Engineer, John Donelon . . .		798 00	
Firemen : —			
J. B. Boldac	$262 29		
G. W. Buzzell	744 00		
John Casey	288 00		
Silas Darling	167 00		
		1,461 29	
Amounts carried forward . . .		$6,213 29	$9,300 00

General Administration — Continued.

CITY BUILDING ACCOUNT, SALARIES — Concluded.

Amounts brought forward		$6,213 29	$9,300 00
For watchman, Joseph Hazlett		728 00	
Elevator man, Edw. F. Walsh		626 00	
Cleaners: —			
Nellie M. Carey	$416 00		
Mary Mannix	416 00		
Mary Miller	314 00		
Annie Wright	260 00		
Sundry persons	282 30		
		1,688 30	
Total			9,255 59
Surplus of appropriation relinquished to General Treasury			$44 41

GENERAL EXPENSES.

Appropriation	$10,000 00

Department Receipts Carried to General Treasury.

For heating buildings: —		
Police Department	$890 00	
Fire Department	375 00	
Sale of old material	93 46	
	$1,358 46	

EXPENDED.

For dues, Gas Consumers' Association		$36 00	
Expressage and moving furniture: —			
P. Biggin		5 00	
Fuel: —			
P. F. Gayton & Co.	$17 25		
Mass. Wharf Coal Co.	873 65		
Metropolitan Coal Co.	4,038 82		
		4,929 72	
Lighting: —			
Cambridge Electric Light Co.	$1,130 04		
Cambridge Gas Light Co.	524 70		
		1,654 74	
Washing towels, Nellie M. Carey		146 64	
Repairs to buildings: —			
Carpentry: —			
W. Fillmore Co.	$10 69		
C. Mahoney	19 85		
Thomas Powers	56 79		
John Quin & Son	325 01		
Gustavus Wilson	1,819 90		
		2,232 24	
Amounts carried forward		$9,004 34	$10,000 00

General Administration — Continued.

CITY BUILDING ACCOUNT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$9,004 34	$10,000 00
For elevator repairs: —			
M. T. Davidson	$5 95		
Julian D'Este Co. . . .	1 25		
Whittier Machine Co. . . .	16 91		
		24 11	
Mason work: —			
John Delaney	$183 38		
Thomas Leahy & Son . . .	170 00		
		353 38	
Painting, glazing, etc.: —			
M. A. Feeley	$3 50		
Harry Eldredge Goodhue . .	23 60		
J Leo McDonald . . .	157 84		
O. Olson	26 00		
		210 94	
Plans and supervision: —			
C. Herbert McClare . . .		76 17	
Plastering: —			
Wm. J. Heron	$18 75		
M. L. Hurley & Co. . . .	25 50		
Sundry persons	6 15		
		50 40	
Plumbing: —			
Ernest W. Clark	$18 36		
T. W. Good	118 95		
D. J. Keefe & Co. . . .	115 11		
Herbert L. Rose	103 82		
W. H. Sweeney	17 41		
		373 65	
Roof repairs: —			
John J. Blevins	$167 58		
C. Devine	34 10		
W. H. Sweeney	18 50		
		220 18	
Repairs to furniture and fixtures: —			
F. A. Colburn	$5 50		
James Grant & Co. . . .	1 50		
Mrs. M. M Hogan . . .	20 00		
F. T. Kenney	5 00		
David Thomson	8 00		
Worcester Bros.	49 94		
Wm. H. Zirkel	18 15		
		108 09	
Repairs to heating apparatus: —			
Geo. F. Blake Manufacturing Co.	$25 06		
Brock Bros.	51 61		
John B. Byrne	56 71		
T. W. Good	82 47		
Greene & Co.	79 86		
Roberts Iron Works Co. . .	180 88		
Sundry persons	7 60		
		484 19	
Inspection of boilers, S.C. Baxter		27 00	
Amounts carried forward . . .		$10,932 45	$10,000 00

General Administration — Continued.

CITY BUILDING ACCOUNT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$10,932 45	$10,000 00
For repairs to lighting apparatus, and electrical work :—			
F. Bryant & Co.	$15 93		
Ernest W. Clark	44 57		
Thomas J. Daly	38 43		
Sundry persons	5 87		
		104 80	
Repairing locks, etc., Brock Bros.		27 89	
Supplies :—			
Brass plates :—			
T. F. McGann & Sons Co. . .		13 20	
Brooms, brushes, dusters, etc. :—			
Chas. F. F. Campbell . . .		8 63	
Furniture, furnishings and fixtures :—			
Brock Bros.	$8 25		
Doten-Dunton Desk Co. . .	20 00		
C. Egan	45 00		
B. E McDermott & Co. . .	3 00		
Worcester Bros. . . .	186 72		
		262 97	
Hardware, tools and supplies :—			
Brock Bros	3 30		
Brock and Eaton . . .	16 89		
E. T. Bynner	18 40		
Sundry persons	4 40		
		42 99	
Ice, Cambridge Ice Co. . . .		57 37	
Oil, Standard Oil Co. . . .		5 78	
Sand, Jeremiah Sullivan . .		14 00	
Toilet paper, Geo. T. Johnson & Co.		13 00	
Sundries		2 30	
Transfers :—			
Electrical work, Electrical Dept.	$1 95		
Supplies, Postage and Stationery Account	3 76		
		5 71	
Total			11,491 09
Excess of expenditures over appropriation . .			$1,491 09
Additional appropriation			1,500 00
Balance relinquished to General Treasury . . .			$8 91

General Administration — Continued.

CITY BUILDING ACCOUNT, GENERAL EXPENSES — Concluded.

	SUMMARY. EXPENDED.
For fuel	$4,929 72
Lighting	1,654 74
Repairs	4,293 04
Supplies	425 95
Miscellaneous	187 64
Total	$11,491 09

MISCELLANEOUS. (1.7)

POSTAGE AND STATIONERY.

Appropriation $1,400 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For supplies: —	
Assessors' Department	$87 35
Auditing Department	39 40
Board of Survey	2 25
Cemetery Department	62 55
City Clerk Department	123 70
City Council Expenses	19 85
City Messenger's Department	156 92
Clerk of Committees' Department	88 91
E E. City Clerk	95 53
E. E. Registrars of Voters	17 68
Electrical Department	10 75
Engineering Department	26 20
Fire Department	2 89
Health Department	62 32
Diphtheria Hospital	1 20
Inspector of Milk and Vinegar	5 81
Law Department	38 00
Mayor's Department	86 75
Overseers of the Poor	70 00
Park Department	79 52
Police Department	25 86
Sealer of Weights and Measures	8 77
Sewer Department	13 78
State Aid	14 85
Street Department	145 47
Superintendent of Buildings	18 84
Treasury Department	44 24
Water Department	90 68
	$1,440 07

EXPENDED.

For postage, F. M. Small, Sup't	$990 00	
Amounts carried forward	$990 00	$1,400 00

General Administration — Concluded.

POSTAGE AND STATIONERY — Concluded.

Amounts brought forward . .		$990 00	$1,400 00
For stationery, printing and office supplies: —			
Fred L. Beunke	$51 79		
Frank P. Bridges & Co. . .	12 00		
Cambridge Chronicle . . .	7 25		
Carter, Rice & Co.	3 50		
Carter's Ink Co.	8 00		
Wm. H. Claflin & Co. . . .	13 08		
Cotton & Gould	527 54		
Emry Davis	12 00		
Diamond Paste Co. . . .	2 75		
John H. Hezlitt	4 75		
Library Bureau	18 75		
Geo. S. Saunders & Co. . . .	9 40		
Smith Premier Typewriter Co. .	16 10		
Thorp & Martin Co. . . .	14 10		
Sundry persons	7 43		
		708 44	
Total			1,698 44
Excess of expenditures over appropriation . . .			$298 44
Transfer to this account from Contingent Fund . .			300 00
Balance relinquished to General Treasury . . .			$1 56

SCHEDULE A-VIII

APPROPRIATIONS AND EXPENDITURES

No. 2

PUBLIC SAFETY

(PROTECTION OF LIFE, HEALTH AND PROPERTY)

2. PUBLIC SAFETY (Protection of Life, Health and Property)

POLICE DEPARTMENT (2.1)

SALARIES.

Appropriation		$146,000 00

EXPENDED.

For salaries of :—			
Chief, Frederick B. Pullen		$2,000 00	
Deputy Chief, Wm. F. Batchelder		1,500 00	
Chief Inspector, Patrick J. Hurley		1,400 00	
Captains :—			
John J McBride	$1,400 00		
John F. Murray	1,400 00		
James E. Murray	1,400 00		
		4,200 00	
Lieutenants		11,785 32	
Sergeants		7,046 00	
Patrolmen		100,452 95	
Reserve Officers		5,757 00	
Drivers		5,481 25	
Matrons		738 00	
Pensioners :—			
Lothrop J. Cloyes	$1,000 00		
Mark J. Folsom	700 00		
Frederick Apel	553 50		
Edw. F. Belcher	553 50		
Wm. H. Graves	553 50		
Robert T. Hixon	36 00		
Henry C. Jones	553 50		
John E. Shaughnessy	553 50		
		4,503 50	
Allowance to officers absent on account of sickness		1,053 50	
Total			145,917 52
Surplus of appropriation relinquished to General Treasury			$82 48

GENERAL EXPENSES.

Appropriation	$6,500 00

Department Receipts Carried To General Treasury.

For ambulance service	$63 00	
Cloth, etc.	859 07	
Collars	17 10	
Court fines (2.3)	4,441 30	
Fee for services of patrolman at court	40 00	
Horse	101 87	
	$5,522 34	
Amount carried forward		$6,500 00

Public Safety — Continued.

POLICE DEPARTMENT, GENERAL EXPENSES — Continued.

Amount brought forward . .			$6,500 00
	EXPENDED.		
For advertising :—			
Cambridge Chronicle . . .	$5 00		
Detective Publishing Co. . .	15 00		
		$20 00	
Badges and repairs :—			
Boston Badge Co.	$14 50		
G. W. Burditt	45 00		
Sundry persons	2 90		
		62 40	
Bicycle and repairs :—			
Craigie Cycle Co.	$6 25		
Wm. Read & Sons	60 00		
R. M. P. Thorp	9 10		
		75 35	
Buttons, Waterbury Button Co. .		63 75	
Car tickets :—			
Boston Elevated Railway Co. .		275 00	
Cash expended for sundries :—			
James A. Cox	$9 05		
John W. Deehan	8 55		
Herbert Gordon	8 15		
James P Hall	42 45		
Patrick J. Hurley	17 75		
John J. McBride	4 57		
James E. Murray	21 57		
John F. Murray	26 82		
Michael Neilan	17 85		
John F. Powers	4 50		
Frederick B. Pullen . . .	28 32		
		189 58	
Chemical analysis :—			
Albert P. Norris, M. D. . .		5 00	
Cleaning stations :—			
Julia Delaney	$18 30		
Mary Miller	96 00		
Sarah Williams	10 00		
Anna Wright	110 00		
		234 30	
Cloth for uniforms :—			
S. Slater & Sons	$649 89		
Thos. W. Talcott	12 50		
		662 39	
Clubs, Raphael Masstrangialo . .		9 00	
Collars, O. Elliot Smith . . .		18 00	
Cutting cloth, Hobbs & Warren Co. .		3 00	
Damage to clothing :—			
Robert J. Douglas, Jr. . . .	$5 00		
James M. Keaney	6 65		
Chas. W. Wyman	5 65		
		17 30	
Amounts carried forward . . .		$1,635 07	$6,500 00

Public Safety — Continued.

POLICE DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward		$1,635 07	$6,500 00
For directories: —			
W. A. Greenough & Co.	$28 00		
Sampson & Murdock Co.	6 00		
		34 00	
Disinfectant and insecticide: —			
Wm. B. Hunt & Co.	$3 25		
West Disinfecting Co.	11 08		
Winchester's Tar Disinfectant Co.	12 50		
		26 83	
Dues, Gas Consumers' Association		15 00	
Expressage: —			
Savage & Son	$1 60		
Sawin's Express	7 00		
		8 60	
Fire arms and repairs: —			
Wm. Read & Sons		103 55	
Furniture, furnishings and repairs: —			
Brock Bros.	$28 45		
F. Bryant & Co.	6 10		
W. J. Coveny & Co.	14 50		
Derby Desk Co.	36 00		
		85 05	
Hardware, tools and supplies: —			
E. T. Bynner	$22 68		
Charak Bros. Co.	4 25		
Peter Gray & Sons	5 00		
F. E. Hewins	25 03		
W. A. Morrison	5 00		
G. H Rodgers	22 45		
L. A Stingel	13 38		
Yerxa & Yerxa	8 75		
Sundry persons	8 01		
		114 55	
Harness and repairs: —			
Chas. E. Berry	$11 00		
M. Cavanagh	58 00		
Owen Doherty	10 50		
Sundry persons	4 95		
		84 45	
Hay, grain and straw: —			
Otis S. Brown & Co.	$234 24		
R. Costello	32 47		
J. Cushing & Co.	118 62		
John E. Ryan	61 25		
		446 58	
Horse board: —			
George D. Merrill	$75 00		
Fred D. Norton	15 84		
G. F. Whiting & Co.	159 96		
		250 80	
Horse clipping, Ferris & Co.		9 00	
Amounts carried forward		$2,813 48	$6,500 00

Public Safety — Continued.

POLICE DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward		$2,813 48	$6,500 00
For horseshoeing :—			
Wm. Balmer	$51 50		
R. Barry	18 50		
John F. Gurry	26 50		
Thos. Smith & Sons	51 50		
		148 00	
House repairs :—			
Carpentry :—			
W. H. Norris	$7 82		
W. B. Shay	12 70		
Installing electric lights :—			
J. H. McAllister	15 90		
Sundry repairs	5 06		
		41 48	
Ice :—			
Fresh Pond Ice Co.	$22 56		
Independent Ice Co.	12 00		
		34 56	
Laundry work :—			
Mrs. Annie I. Dow	$21 00		
E & R Laundry Co.	3 19		
Margaret McCabe	18 88		
		43 07	
Lighting :—			
Cambridge Electric Light Co.	$291 90		
Cambridge Gas Light Co.	600 40		
		892 30	
Medicines, drugs and surgical supplies :—			
Buzzell-Flanders Co.	$8 00		
Sundry persons	5 15		
		13 15	
Military instruction, Wm. J. Greene		62 00	
Numbers, chevrons, trimmings, etc :—			
Rose Lipp	$22 40		
Raphael Masstrangialo	49 25		
		71 65	
Photographs :—			
F. M. Ellis	$22 00		
Whitney & Son	2 00		
		24 00	
Professional services :—			
Phillip M. Fitzsimons, M. D.	$6 00		
W. L. Hayes, M. D.	3 00		
C. Parker Holt, M. D.	7 00		
F. A. Sullivan, M. D.	3 00		
		19 00	
Refunds on minors' license badges		91 05	
Services as counsel, Albert S. Apsey		75 00	
Amounts carried forward		$4,328 74	$6,500 00

Public Safety — Continued.

POLICE DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$4,328 74	$6,500 00
For sevices as stenographer:—			
Wm. F. Costello		11 00	
Speedometer, etc., Joseph W. Jones		35 00	
Stationery, printing and typewriter supplies:—			
Fred L. Beunke	$144 58		
Cambridge Chronicle . . .	15 50		
Caustic-Claflin Co.	44 85		
Cotton & Gould	25 37		
J. A. Cummings Printing Co. .	7 80		
Emry Davis	6 00		
J. Frank Facey	17 00		
Newton Graphic Publishing Co. .	1 50		
		262 60	
Subscriptions:—			
Detective Publishing Co. . .	$4 00		
Pocket Manual Co. . . .	1 00		
		5 00	
Sundries		19 69	
Telephone service		345 98	
Travelling expenses:—			
Frederick B Pullen . . .		35 00	
Use of horse and buggy:—			
Cambridge Coach Co. . . .	$8 00		
Geo H Merrill	28 75		
G. F. Whiting & Co. . . .	4 00		
		40 75	
Wagon repairs:—			
John J. McDonald	$117 25		
Alden H. Rollins	5 00		
Chas Waugh & Co. . . .	366 18		
		488 43	
Transfers:—			
Supplies, Postage and Stationery Account	$36 66		
Heating buildings, City Building Account	890 00		
Repairing buzzer, Electrical Dept.	1 15		
		927 81	
Total			6,500 00

FIRE DEPARTMENT. (2.2)

SALARIES.

Appropriation			$89,000 00
EXPENDED.			
For salaries of Chiefs:—			
Thos. J. Casey	$166 66		
Nathaniel W. Bunker . . .	1,833 34		
		$2,000 00	
Amounts carried forward . . .		$2,000 00	$89,000 00

Public Safety — Continued.

FIRE DEPARTMENT, SALARIES — Concluded.

Amounts brought forward . .		$2,000 00	$89,000 00
For assistant Chiefs: —			
Nathaniel W. Bunker . . .	$125 00		
James M. Casey	1,375 00		
		1,500 00	
Permanent men		66,419 02	
Call men		16,207 45	
Pensioners: —			
Eliot E Alley	$72 00		
Thomas J. Casey	916 66		
James Cunningham . . .	84 00		
Arthur C. Day	72 00		
Benjamin D. Foss	72 00		
James Jefferson	123 00		
Edward E. Priest	516 00		
James H. Skehan	516 00		
		2,371 66	
Total			88,498 13
Surplus of appropriation relinquished to General Treasury			$501 87

GENERAL EXPENSES.

Appropriation	$23,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For board of horse	$130 00
Soda kegs	6 35
	$136 35

EXPENDED.

For apparatus (new): —			
Boston Coupling Co. . . .	$25 00		
Boston Woven Hose & Rubber Co.	1,530 50		
Chas. Waugh & Co. . . .	3,233 78		
		$4,789 28	
Apparatus and repairs: —			
American Locomotive Co. . .	$2,049 70		
Chas. E. Berry	242 35		
Boston Woven Hose & Rubber Co.	926 72		
Campbell Iron Works . . .	40 54		
Wm. Elliott & Co.	334 60		
Firestone Tire & Rubber Co. . .	33 60		
Harry Hunt	10 00		
F. Ivers & Son	39 00		
C. E. Moody	4 00		
C. W. H. Moulton & Co. . .	353 10		
Joseph Palmer	21 25		
Scrannage Bros.	75 35		
H. J. Shaw	12 14		
Chas Waugh & Co. . . .	686 26		
		4,828 61	
Amounts carried forward . .		$9,617 89	$23,000 00

Public Safety — Continued.

FIRE DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward		$9,617 89	$23,000 00
For badges, Merriam & Xavier		37 65	
Brass work, G. W. Hayden		4 50	
Brooms, brushes, dusters, etc.:—			
A. and E. Burton & Co.	$12 00		
E. T. Bynner	16 55		
B. LaCroix & Son	31 50		
Murphy, Leavens & Co.	12 50		
		72 55	
Chemicals, Cochrane Chemical Co.		32 76	
Copying rules and regulations:—			
Helen L. Brady		4 50	
Directory, W. A. Greenough & Co.		3 50	
Drain repairs, Samuel McCulloch		80 50	
Dues, Gas Consumers' Association		9 00	
Expressage and teaming:—			
Wm. F. Colby	$8 00		
Savage & Son	13 88		
Sundry persons	6 60		
		28 48	
Fuel:—			
Consumers' Coal Co.	$37 40		
Mass. Wharf Coal Co.	1,724 32		
Metropolitan Coal Co.	1,482 45		
		3,244 17	
Furniture, furnishings and repairs, and bedding:—			
J. H. Corcoran & Co.	$57 50		
S H. Harrington	46 00		
Schofield & White	26 25		
Worcester Bros.	474 87		
		604 62	
Hardware, tools and repairs, and supplies:—			
Brock Bros.	$3 30		
Brock & Eaton	26 78		
E. T. Bynner	226 54		
Cambridge Hardware Co.	6 49		
Casey, Bigley & Co.	49 36		
Gould Packing Co.	3 00		
Peter Gray & Sons	4 00		
J. A. Holmes & Co.	52 31		
H. N. Hovey & Co.	3 53		
M. R. Jouett & Co.	3 63		
Wm. F. Nye	6 52		
H. H. Tilton & Co.	7 50		
James H. Wyeth & Co.	7 92		
Sundry persons	3 97		
		404 85	
Amounts carried forward		$14,144 97	$23,000 00

Public Safety — Continued.

FIRE DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$14,144 97	$23,000 00
For harness and repairs, and horse clothing :—			
M. Cavanagh	$89 50		
Owen Doherty	122 55		
Patrick Farrell	8 75		
Harvard Harness Store . .	5 65		
M. M. Hawkes	17 45		
F. Ivers & Son	15 00		
Wm. H. Roberts	66 85		
Sundry persons	2 50		
		328 25	
Hay, grain and straw :—			
J. Cushing & Co.	$3,915 55		
Eclipse Animal Food Co. . .	9 00		
E. R. Luke & Co.	338 35		
H. P. McLaughlin & Co. . .	504 51		
		4,767 41	
Horses, Welch & Hall Co. . . .		2,416 47	
Horseshoeing :—			
Wm. Balmer	$59 50		
R. Barry	150 75		
J. A. Bolger	105 00		
Geo. W. Doak	1 00		
W. F. Garrett	146 00		
Wm. M. Gordon	51 25		
John F. Gurry	121 75		
T. Hickey	102 75		
D. F. McCarthy & Co. . . .	49 25		
John A Peters	54 00		
Bernard Smith	76 75		
Thos. Smith & Sons . . .	61 50		
		979 50	
House repairs :—			
Carpentry :—			
Alfred Allcock . .	$107 45		
W. H. Norris . .	82 85		
John Quin & Son .	50 17		
	$240 47		
Electrical work, sundry persons .	4 54		
Heating apparatus repairs :—			
J. H. Haley & Co. .	$4 10		
Higgins & Co. . .	3 65		
	7 75		
Mason work, Thos. Leahy & Son .	16 00		
Plumbing and drain work :—			
Greene & Co. . .	$1 50		
W. Haley . . .	5 97		
Herbert L. Rose . .	45 09		
	52 56		
		321 32	
Amounts carried forward . . .		$22,957 92	$23,000 00

Public Safety — Continued.

FIRE DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$22,957 92	$23,000 00
For ice: —			
Cambridge Ice Co.	$20 80		
Fresh Pond Ice Co. . . .	31 56		
Independent Ice Co. . . .	5 25		
		57 61	
Insignias, Miss B. Goldsmith . .		37 25	
Laundry work: —			
F. L. Churchill	$90 38		
University City Laundering Co. .	130 57		
		220 95	
Lighting: —			
Cambridge Electric Light Co. .	$346 77		
Cambridge Gas Light Co. . .	562 20		
		908 97	
Lumber and mill work: —			
Geo. W. Gale Lumber Co. . .	$37 99		
Willard Bros.	12 55		
		50 54	
Oil, polish, etc: —			
Commonwealth Oil Co. . . .	$13 00		
J. Wesley Edmonds & Son . .	91 80		
Standard Oil Co.	97 13		
Geo. Wm. Waite Co. . . .	14 58		
		216 51	
Pasturage of horse, J. H. Corcoran .		6 00	
Replating buttons, Merriam & Xavier		23 27	
Shavings, C. W. H. Moulton & Co. .		34 50	
Soap and soap powder: —			
Estate of Chas. R Teele . .	$11 50		
Teele Soap Co.	11 50		
		23 00	
Sponges, Leousi, Clonney & Co. .		125 30	
Stationery, printing, etc.: —			
Cambridge Chronicle . . .	$89 00		
Cotton & Gould	8 25		
J. A. Cummings Printing Co. .	13 21		
		110 46	
Storage of ladder truck: —			
F. Ivers & Son		8 50	
Switches, Stewart & Pownall . .		40 00	
Telephone service		45 31	
Towels, Schofield & White . .		55 45	
Transfers: —			
Heating buildings, City Building Account	$375 00		
Supplies, Postage and Stationery Account	8 59		
		383 59	
Amounts carried forward . . .		$25,305 13	$23,000 00

Public Safety — Continued.

FIRE DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$25,305 13	$23,000 00
For use of horses :—			
James Culhane	$61 00		
Fresh Pond Ice Co. . . .	177 00		
John Herlihy	129 00		
Geo D Merrill	10 50		
Otis S. Neale Co.	78 00		
John M Riley	132 00		
M. Shea	13 00		
John Williams	79 50		
		680 00	
Weighing coal, Chas. F. Long . .		13 50	
Sundries		1 25	
Total . . .			25,999 88
Excess of expenditures over appropriation . .			$2,999 88
Additional appropriation			3,000 00
Balance relinquished to General Treasury . . .			12

FIRE DEPARTMENT.

NEW ENGINE HOUSE, WARD 10.

Appropriation			$12,377 46
EXPENDED.			
For building contract, Walsh Bros. .		$9,168 50	
Carpentry, Thomas Powers . .		16 47	
Electric door openers, Wm. C. Pierce		50 00	
Electric light fixtures :—			
Jas Wilkinson & Co. . . .		140 00	
Electric wiring, Warren W. Scott .		244 00	
Hardware, S. H. Davis & Co. . .		394 82	
Heating and ventilating contract :—			
Laskey, Whitten & Jackson . .		669 50	
Painting :—			
J. Leo McDonald	$1 75		
Olson & Johnson	7 00		
		8 75	
Pipe and connection :—			
Cambridge Gas Light Co. . .		12 32	
Plans, Charles R. Greco . . .		866 40	
Plumbing contract, Higgins & Co. .		806 37	
Total			12,377 13
Surplus of appropriation relinquished to General Treasury			33

Public Safety — Continued.

FIRE AND POLICE TELEGRAPH. (2 2a)

ELECTRICAL DEPARTMENT, WIRE ACCOUNT.

SALARIES.

Appropriation			$8,195 00
EXPENDED.			
For salaries of :—			
Inspector of Wires, T. C. O'Hearn	$1,000 00		
Assistants	6,804 00		
Clerk, Wm. H. Sheridan	299 00		
		$8,103 00	
Total			8,103 00
Surplus of appropriation relinquished to General Treasury			$92 00

GENERAL EXPENSES.

Appropriation			$4,500 00
DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.			
For labor	$6 50		
Sale of old material	4 70		
	$11 20		
EXPENDED.			
For apparatus and repairs and electrical supplies :—			
Cambridge Electric Light Co.	$12 30		
Clark and Mills Electric Co.	233 91		
Cochrane Chemical Co.	4 21		
Thomas J. Daly	28 31		
W. E Decrow	1,110 46		
Eastern Drug Co.	52 85		
Edes Manufacturing Co	44 51		
Electric Gas Lighting Co.	144 77		
Electric Storage Battery Co.	129 78		
F. M Ferrin	126 57		
Holtzer-Cabot Electric Co	134 18		
Kellogg Switchboard & Supply Co.	5 10		
H. F. Livermore	17 55		
J Leo McDonald	75		
Wm. J Murdock & Co.	20 00		
New York Insulated Wire Co.	36 97		
Pettingell-Andrews Co.	271 80		
Thomas Powers	64 30		
Simplex Electrical Co.	91 63		
Parke Snow	55		
Stuart-Howland Co.	7 40		
John Underwood & Co.	4 25		
		2,542 15	
Amounts carried forward		$2,542 15	$4,500 00

Public Safety — Continued.

ELECTRICAL DEPARTMENT, WIRE ACCOUNT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$2,542 15	$4,500 00
For binding :—			
J. H. H. McNamee Co. . . .		4 50	
Carpentry, Thomas Powers . .		27 05	
Carriage hire, G. F. Whiting & Co. .		34 00	
Car tickets :—			
Boston Elevated Railway Co. .		100 00	
Directory, W. A. Greenough & Co. .		3 50	
Expressage :—			
American Express Co. . . .	$1 45		
Danehy's Express	36 64		
Dodge Express Co. . . .	6 75		
T. H. Fitzpatrick	25		
Frank D. Kenney	3 00		
Quinlan's Express	2 00		
Sawin's Express	1 25		
		51 34	
Fuel :—			
Massachusetts Wharf Coal Co. .		195 76	
Furniture, furnishings and fixtures and repairs :—			
James F. Rooney		5 90	
Hardware, tools and repairs and supplies :—			
Boston Plate and Window Glass Co.	$0 25		
Brock Bros.	43 99		
E. T. Bynner	1 10		
J. H. Corcoran & Co. . . .	05		
Thos. J. Daly	6 40		
J. Leo McDonald	1 00		
J. F. McPherson	1 00		
J. F Rooney	32 18		
Edwin R. Sage	8 07		
A. J. Wilkinson & Co. . . .	28 57		
		122 61	
Harness and repairs and horse clothing :—			
Harvard Harness Store . . .	$7 00		
Hugh McCaffrey	13 70		
Thomas McMahon	12 50		
		33 20	
Horse board :—			
John J. Corkery		310 00	
Horseshoeing :—			
Wm. Balmer		60 00	
Laundry work :—			
F. L. Churchill		14 14	
Amounts carried forward . . .		$3,504 15	$4,500 00

Public Safety — Continued.

ELECTRICAL DEPARTMENT, WIRE ACCOUNT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$3,504 15	$4,500 00
For lighting :—			
Cambridge Electric Light Co. .		19 95	
Lumber and mill work :—			
Geo. W. Gale Lumber Co. . .	$2 42		
Ira G. Hersey	144 50		
Wm. H. Wood & Co. . . .	42 48		
		189 40	
Oil, paints, etc. :—			
W. J. Edwards	$60 02		
M. Myers	2 40		
		62 42	
Repairing steam whistle :—			
Crosby Steam Gage & Valve Co. .		12 50	
Register paper : —			
Chas. E. Perry & Co. . . .		102 00	
Stationery, printing and office supplies : —			
Amee Bros.	$0 60		
C. S. Binner Corporation . .	14 83		
Carter's Ink Co.	1 00		
J. A. Cummings Printing Co. .	6 22		
Estate of H. C. Dimond & Co. .	2 50		
J. Frank Facey	43 00		
Globe-Wernicke Co. . . .	6 00		
Harvard Co operative Society .	57		
Pneumatic Hand Stamp Co. . .	2 49		
John Underwood & Co. . . .	2 20		
		79 41	
Steam for whistle :—			
A. H. Hews & Co.		100 00	
Telephone service		115 83	
Towels, J. H. Corcoran & Co. . .		1 96	
Transfers : —			
Horse board, Fire Department .	$130 00		
Supplies, Postage and Stationery .	28 16		
		158 16	
Traveling expenses, T. C. O'Hearn .		57 00	
Wagon and carriage repairs : —			
T. H Kneeland	$95 72		
Thomas McMahon	1 50		
		97 22	
Total			4,500 00

Public Safety — Continued.

ELECTRICAL DEPARTMENT, WIRE ACCOUNT.

KEYLESS DOORS.

Appropriation	$800 00

EXPENDED.

For keyless doors for fire-alarm boxes: —		
W. E. Decrow	$800 00	
Total		800 00

HEALTH DEPARTMENT. (2.4)

SALARIES.

Appropriation	$12,630 00

EXPENDED.

For salaries of: —			
Medical Inspector and Physician to Board, Edwin Farnham, M. D.		$3,000 00	
Clerk, James B. Soper		1,200 00	
Secretary, Grace E. Wyeth		800 00	
Sanitary Inspectors: —			
John A. Jackson	$1,000 00		
Chas. A. Lincoln	1,000 00		
		2,000 00	
Inspector of Provisions: —			
Joseph L. Johnson		1,000 00	
Plumber, John McCormick		1,000 00	
Driver, Richard M. O'Brien		950 00	
Bacteriologists: —			
J. R. Sennott, M. D.	$272 90		
Allan F. Barnes, M. D.	807 10		
		1,080 00	
School Inspectors: —			
F. J. Barnes, M. D.	$100 00		
Wm. H. Clancy, M. D.	200 00		
John F. Fair, M. D.	100 00		
Wm. E Fleet, M. D	200 00		
C. M Hutchinson, M D.	200 00		
M. L. King, M. D.	200 00		
T. J Leahy, M. D.	200 00		
E. A. McCarthy, M. D.	100 00		
A. Moll, M. D.	100 00		
John P. Nelligan, M. D.	44 03		
Chas. P. Feeley, M. D.	155 97		
		1,600 00	
Total			12,630 00

Public Safety — Continued.

HEALTH DEPARTMENT

GENERAL EXPENSES.

Appropriation $8,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For care of sick: —		
Commonwealth of Massachusetts	$378 71	
City of Gloucester	38 57	
Estate of Hannah McConnell	25 00	
City of Medford	87 85	
City of Somerville	64 29	
City of Boston	1,587 82	
	$2,182 24	

EXPENDED.

For advertising: —		
Boston Transcript Co.	$2 80	
Cambridge Sentinel Publishing Co.	13 75	
Cambridge Tribune	1 50	
Globe Newspaper Co.	1 75	
Times Publishing Co.	2 00	
		$21 80
Board and care: —		
Cambridge Hospital	$4,203 01	
Holy Ghost Hospital	18 00	
		4,221 01
Boxes: —		
Place Box Co.	$8 00	
John Quin & Son	10 50	
		18 50
Carriage and wagon repairs: —		
E. Goodwin		70 85
Carriage hire: —		
I. J. Goodhue	$6 00	
Soden Street Stable	16 00	
B. S. Walker	15 00	
G. F. Whiting & Co.	3 00	
		40 00
Car tickets: —		
Boston Elevated Railway Co.		500 00
Cash expended for burying animals: —		
Edwin Farnham		128 50
Certified copies: —		
Edwin O Childs, Register		2 01
Dinners: —		
Mansion House		2 25
Directories: —		
W A. Greenough & Co.	$3 50	
Sampson & Murdock Co.	6 00	
		9 50
Amounts carried forward		$5,014 42 $8,000 00

Public Safety — Continued.

HEALTH DEPARTMENT, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$5,014 42	$8,000 00
For drain work :—			
Samuel McCulloch		28 95	
Examining titles :—			
Wm. V. Thompson . . .	$13 00		
Geo. D. Wildes	5 00		
		18 00	
Expressage :—			
American Express Co. . . .	$5 80		
American Pneumatic Service Co. .	15		
Butland & Son	1 70		
Sawin's Express	2 45		
		10 10	
Hardware, tools and supplies :—			
Brock Bros.	$10 20		
E. T Bynner	15 61		
Clark & Mills Electric Co. . .	1 55		
Dwight T Cortis	3 90		
Yerxa & Yerxa . . .	2 39		
		33 65	
Harness and repairs, and horse clothing :—			
E. T. Bynner	$2 25		
M. Cavanagh	33 85		
		36 10	
Horse :—			
Welch & Hall Co.		153 86	
Horse board and storage of ambulance :—			
I. J. Goodhue		429 50	
Horse clipping :—			
I. J. Goodhue		3 00	
Horseshoeing : —			
W. F Garrett	$45 25		
John F. Gurry	14 00		
		59 25	
Making boxes, etc., W. H. Norris .		10 11	
Medical aid : —			
Town of Brookline . . .	$96 42		
City of Melrose	164 42		
City of Newton	45 36		
		306 20	
Medical apparatus and repairs and supplies : —			
Bausch & Lomb Optical Co. . .	$0 95		
J. R. Fallon	51 98		
Wm. B. Hunt & Co . . .	24 73		
Johnson & Johnson . . .	268 80		
Moynahan & Co.	2 50		
Sampson-Soch Co.	2 00		
F. H. Thomas Co.	49 92		
Whitall-Tatum Co. . . .	13 54		
Wm. C Wright	28 76		
		443 18	
Amounts carried forward . . .		$6,546 32	$8,000 00

Public Safety — Continued.

HEALTH DEPARTMENT, GENERAL EXPENSES— Continued.

Amounts brought forward . .		$6,546 32	$8,000 00
For medicines, drugs, etc. : —			
Billings & Stover	$139 25		
J. A. & W. Bird & Co. . . .	34 30		
Geo. A Miller	10 65		
J. A. S. Woodrow	1 80		
		186 00	
Painting : —			
O. C. Lougee & Co. . . .	$15 75		
Chas. E McMenimen . . .	6 00		
		21 75	
Plumbing, etc : —			
Levi Hawkes	$3 77		
Samuel McCulloch	9 15		
Herbert L. Rose	65		
		13 57	
Repairing table and chairs : —			
James Grant & Co.		13 50	
Repairing ambulance : —			
Chas. Waugh & Co. . . .		44 50	
Serving notices : —			
Oscar D. Capen	$3 00		
Goss & Salisbury	3 00		
W. Y. Gross	1 00		
John F. Kelly, Treasurer . .	39 68		
E. W. Merrick	4 64		
A. F. Richardson	1 16		
T. M. Sheehan	2 12		
C. L. Stevens	1 00		
Walter C. Wardwell . . .	27 24		
Chas. G. Whitman	3 48		
		86 32	
Services conducting examination for bacteriologist : —			
Harold C. Ernst, M. D. . . .		50 00	
Stationery, printing and office supplies :—			
A. F Barnes	$10 60		
Cambridge Chronicle . . .	22 00		
Cambridge Tribune . . .	3 25		
Caustic-Claflin Co. . . .	236 00		
Cotton & Gould	10 12		
J A. Cummings Printing Co. .	18 61		
J. Frank Facey	10 00		
Harvard Co-operative Society .	69		
Library Bureau	3 95		
Pneumatic Hand Stamp Co . .	46		
		315 68	
Telephone service		173 79	
Transfer : —			
Supplies, Postage and Stationery Account		65 76	
Amounts carried forward . .		$7,517 19	$8,000 00

Public Safety — Continued.

HEALTH DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$7,517 19	$8,000 00
For teaming :—			
Edward Hartz	$1 50		
Hersum & Co.	3 00		
		4 50	
Use of coach :—			
Prospect Stable		5 00	
Use of horse and men on ambulance :—			
I. J. Goodhue		10 00	
Total			7,536 69
Surplus of appropriation relinquished to General Treasury			$463 31

DIPHTHERIA HOSPITAL.

Appropriation			$8,200 00
EXPENDED.			
For salaries of physicians :—			
David C. Dow, M. D. .	$957 14		
Felix F. McGirr, M. D. .	242 86		
		$1,200 00	
Matron, Mildred Sanborn .		720 00	
Nurses :—			
Alice Hawkins . .	$480 00		
Melinda Hodgins . .	480 00		
Olive Inch . . .	480 00		
Minnie Simpson . .	480 00		
		1,920 00	
House-man, James Reagan . .		738 00	
Cooks :—			
Agnes Campbell . .	$150 00		
Mary Murphy . .	66 86		
Cassie Short . .	96 86		
		313 72	
House-servant, Clara Flynn . .		263 57	
Laundresses :—			
Minnie Brattin . .	$316 28		
Ida McPhail . .	12 00		
		328 28	
			$5,483 57
Bulbs, Jos. Breck & Sons . . .			5 00
Cleaning ice from gutters :—			
Howard F. Peak			3 00
Clothing, Jordan, Marsh Co. . .			8 10
Amounts carried forward . . .			$5,499 67 $8,200 00

Public Safety — Continued.

HEALTH DEPARTMENT, DIPHTHERIA HOSPITAL — Continued.

Amounts brought forward . .		$5,499 67	$8,200 00
For employment bureau fees :—			
Camb. Young Women's Christian Ass'n		50	
Expressage :—			
Sawin's Express		80	
Fuel :—			
Consumers' Coal Co. . . .	$12 72		
Massachusetts Wharf Coal Co. .	64 61		
Metropolitan Coal Co. . . .	153 30		
Frank A Teele	14 85		
		245 48	
Furniture, furnishings and household supplies :—			
Louis W. Cutting Co. . . .	$0 48		
Jordan, Marsh Co. . . .	113 20		
Worcester Bros.	28 50		
		142 18	
Gauze :—			
Griswoldville Manufacturing Co. .		54 08	
Hardware and supplies :—			
Brock & Eaton	$36 85		
W. J. Edwards	16 08		
		52 93	
Ice, Fresh Pond Ice Co. . . .		67 18	
Lighting, Cambridge Gas Light Co. .		86 60	
Manure, James Shea		10 00	
Medical and surgical apparatus :—			
John A. E. Sellar		29 00	
Medicines, drugs, etc. :—			
D. A. Eaton	$2 75		
Albert W. Kidder	59 92		
Geo. A. Miller	18 50		
		81 17	
Painting, papering, etc. :—			
W. J. Edwards		21 00	
Plastering, Samuel M. Reed . .		3 80	
Professional services :—			
John H. McCollom, M. D. . .		10 00	
Roof repairs, Howard F. Peak .		6 30	
Subsistence supplies :—			
G P. O'Brien	$145 52		
Robert Printon	232 06		
John P. Squire & Sons . . .	17 26		
Arthur Ward	560 73		
Yerxa & Yerxa	838 35		
		1,793 92	
Telephone service		33 80	
Amounts carried forward . . .		$8,138 41	$8,200 00

Public Safety — Continued.

HEALTH DEPARTMENT, DIPHTHERIA HOSPITAL — Concluded.

Amounts brought forward . .		$8,138 41	$8,200 00
For transfer: —			
Supplies, Postage and Stationery Account		1 20	
Total			8,139 61
Surplus of appropriation relinquished to General Treasury			$60 39

LAND FOR HOSPITAL.

Appropriation			$6,465 00
EXPENDED.			
For services in connection with taking of land: —			
Henry J Cunningham . . .	$100 00		
Watson G. Cutter & Sons . .	50 00		
W. A. Mason & Son . . .	75 00		
		$225 00	
Total			225 00
Surplus of appropriation relinquished to General Treasury			$6,240 00

SMALL-POX HOSPITAL.

Appropriation			$900 00
EXPENDED.			
For salary of care taker: —			
John B. Griffin		$782 13	
Fuel: —			
Metropolitan Coal Co. . . .		38 40	
Oil: —			
E. P. Clark		15 95	
Repairing chimney: —			
Maurice McDonald . . .		12 00	
Total			848 48
Surplus of appropriation relinquished to General Treasury			$51 52

Public Safety — Continued.

HEALTH DEPARTMENT — Continued.

INSPECTOR OF MILK AND VINEGAR.

SALARIES.

Appropriation		$1,575 00
EXPENDED.		
For salary of: —		
Philip P. Sharples	$466 66	
Albert P. Norris	500 00	
	966 66	
Deputy, Clemence J. Hogan	604 00	
Total		$1,570 66
Surplus of appropriation relinquished to General Treasury		$4 34

GENERAL EXPENSES.

Appropriation			$586 00
EXPENDED.			
For apparatus and repairs and supplies: —			
Bausch & Lomb Optical Co.	$12 84		
Bramhall, Deane Co.	100 20		
Eimer & Amend	115 92		
John R Fallon	23 68		
Peter Gray & Sons	33 00		
Greene & Co.	15 00		
A. H Hews & Co.	3 60		
International Instrument Co.	43 60		
S. & J Kelley & Son	1 25		
E. & F King & Co.	17 33		
L. E Knott Apparatus Co.	13 76		
Theodore Metcalf Co.	10 25		
Surgeons' & Physicians' Supply Co.	60		
J. W. Stanford & Co.	3 00		
Whitall-Tatum Co	29 24		
		$423 27	
Car tickets: —			
Boston Elevated Railway Co.		60 00	
Cash expended for sundries: —			
P. P. Sharples	$4 82		
A. P. Norris	30		
		5 12	
Expressage: —			
American Express Co.	$0 25		
Butland & Son	50		
Sawin's Express	5 55		
		6 30	
Amounts carried forward		$494 69	$586 00

Public Safety — Continued.

HEALTH DEPARTMENT, INSPECTOR OF MILK AND VINEGAR, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$494 69	$586 00
For stationery, printing: —			
Cambridge Chronicle . . .	$54 63		
J. A. Cummings Printing Co. .	9 95		
John H. Hezlitt	3 25		
		67 83	
Transfer: —			
Supplies, Postage and Stationery Account		6 31	
Total			568 83
Surplus of appropriation relinquished to General Treasury			$17 17

INSPECTOR OF ANIMALS.

Appropriation			$800 00
EXPENDED.			
For salary of inspector: —			
C. E. Hadcock		$700 00	
Medicines and drugs: —			
Walter A. Claflin	$44 50		
A. Cunningham Drug Co. . .	24 10		
Walter F. Sykes & Co. . . .	4 80		
		73 40	
Total			773 40
Surplus of appropriation relinquished to General Treasury			$26 60

CEMETERY. (2.5)

SALARIES.

Appropriation			$15,000 00
EXPENDED.			
For salaries of: —			
Superintendent, Geo. D. Ford .		$1,800 00	
Bookkeeper, John J. McKenzie .		929 79	
Foreman, Henry C. Hobbs . .		1,001 00	
Laborers		11,812 12	
Clerk, Edw. J. Brandon . .		150 00	
			15,692 91
Excess of expenditures over appropriation . . .			$692 91
Transfer to this account from General Expenses .			700 00
Balance relinquished to General Treasury . . .			$7 09

Public Safety — Continued.

CEMETERY DEPARTMENT — Continued.

GENERAL EXPENSES.

Appropriation	$3,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For brick and slate graves	$468 00	
Burials	3,573 50	
Care	2,164 00	
Chapel	24 00	
Foundations	1,128 25	
Grading and sodding	43 00	
Interest on Cemetery Fund	2,296 62	
Sundries	396 55	
		$10,093 92
Sale of lands and lots		7,568 00
		$17,661 92

EXPENDED.

For bricks, New England Brick Co.			$27 00
Brooms, Stephen Adams			5 00
Car tickets :—			
Boston Elevated Railway Co.			20 00
Carriage hire :—			
Cambridge Coach Co.	$6 50		
John J. Donahue	10 00		
Soden Street Stable	5 00		
			21 50
Covers, Henry A. Wheeler & Co.			25 50
Clothing, Oak Hall Clothing Co.			20 75
Decorating :—			
New England Decorating Co.			24 00
Directory, W. A. Greenough & Co.			3 50
Expressage, C. P. Callahan			3 30
Flowers, Wm. E. Doyle			10 00
Fuel, Massachusetts Wharf Coal Co.			66 93
Granite posts, step, platform and curbing :—			
Austin Ford & Son	$498 00		
George R. Sands	143 80		
			641 80
Granolithic walks :—			
W. A. Murtfeldt Co.			45 00
Hardware, tools and repairs and supplies :—			
Brock Bros.	$4 80		
Braman, Dow & Co.	9 73		
Amounts carried forward	$14 53	$914 28	$3,000 00

Public Safety — Continued.

CEMETERY DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward	$14 53	$914 28	$3,000 00
For Joseph Breck & Sons, Corporation	36 02		
E. T. Bynner	99 68		
T. H. Kneeland	14 08		
Alexander McDonald & Son	1 35		
Moore & Hadley	2 75		
		168 41	
Hay, grain, etc., E. R. Luke & Co.		50 06	
Horseshoeing, Wm. Balmer		19 25	
Lumber and cement: —			
Wm. H Wood & Co.		68 76	
Manure, P. J. Curley		183 34	
Markers, Alexander McDonald & Son		51 90	
Plants, seeds, etc.: —			
H. L. Cameron	$93 25		
Peter Henderson & Co.	9 63		
		102 88	
Removing brown tail and gypsy moth nests: —			
F. B. Shattuck		125 00	
Slate, Thomas F. Royle		37 98	
Sods, P. J. Curley		69 38	
Stationery, printing and office supplies: —			
Amee Bros.	$8 20		
Caustic-Claflin Co.	1 50		
Cotton & Gould	26 50		
J. A. Cummings Printing Co.	17 51		
H. C. Dimond & Co.	1 06		
Smith Premier Typewriter Co.	8 80		
Louis F. Weston	6 75		
Edw. W. Wheeler	34 50		
		104 82	
Stone, W F. Cunningham		274 00	
Teaming, Jeremiah Sullivan		17 50	
Telephone service		37 50	
Transfer: —			
Supplies, Postage and Stationery Account	$62 55		
Street watering tax	6 46		
		69 01	
Wagon repairs, T. H. Kneeland		5 10	
Total			2,299 17
Surplus of appropriation			$700 83
Transfer from this account to Salaries			700 00
Balance relinquished to General Treasury			83

Public Safety — Continued.

INSPECTORS. (2.6)

SUPERINTENDENT OF BUILDINGS.

SALARIES.

Appropriation		$4,881 00

EXPENDED.

For salaries of:—			
Supt. of Buildings, Thos. F. Tracy		$2,000 00	
Inspectors:—			
J. W. Emery	$1,200 00		
L. D. Garfield	1,200 00		
		2,400 00	
Clerk, Wm. H. Sheridan		481 00	
Total			4,881 00

SALARY OF INSPECTOR OF PLUMBING.

Appropriation	$1,150 00

EXPENDED.

For salary of Inspector of Plumbing:—		
Wm. A. Ford	$1,150 00	
Total		1,150 00

GENERAL EXPENSES.

Appropriation	$900 00

EXPENDED.

For bicycle repairs, sundry persons		$6 00	
Blankets, robes, etc.:—			
Harvard Harness Store		17 00	
Care and repair of tower clocks:—			
A. K. Jones	$52 00		
J. B. Mace	26 00		
A. S Thayer	25 00		
Trustees of First Baptist Church	13 00		
		116 00	
Car tickets:—			
Boston Elevated Railway Co.		160 00	
Carriage repairs, T. H. Kneeland		41 25	
Horse, Walter S. Swan		130 00	
Amounts carried forward		$470 25	$900 00

Public Safety— Continued.

SUPERINTENDENT OF BUILDINGS, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$470 25	$900 00
For photographs :—			
De Berge Chemical & Photo Co. .		10 00	
Stationery, printing and office supplies :—			
C. S Binner Corporation . .	$17 90		
J. A Cummings Printing Co. .	42 41		
J. Frank Facey	98 75		
Lord's Electric Print . . .	4 50		
Sundry persons	2 55		
		166 11	
Sundries		10 65	
Telephone service		121 90	
Transfer :—			
Supplies, Postage and Stationery Account		15 78	
Use of horse and carriage :—			
T. W. Hillier & Co. . . .		105 00	
Total			899 69
Surplus of appropriation relinquished to General Treasury			31

INSPECTORS. (2.6)

PLUMBERS' EXAMINERS' DEPARTMENT.

Appropriation		$100 00
EXPENDED.		
For examinations of plumbers :—		
J. T. Phelan	$72 92	
Total		72 92
Surplus of appropriation relinquished to General Treasury		$27 08

SEALER OF WEIGHTS AND MEASURES.

SALARIES.

Appropriation		$2,150 00
EXPENDED.		
For salaries of :—		
Sealer of Weights and Measures, Geo. H. Dinan	$1,113 58	
Deputy, John C. Connors . . .	850 00	
Amounts carried forward . .	$1,963 58	$2,150 00

Public Safety — Continued.

SEALER OF WEIGHTS AND MEASURES, SALARIES — Concluded.

Amounts brought forward		$1,963 58	$2,150 00
For assistants :—			
Bartholomew Geary	$86 40		
Francis H. Nugent	13 20		
		99 60	
Total			2,063 18
Surplus of appropriation relinquished to General Treasury			$86 82

GENERAL EXPENSES.

Appropriation	$450 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For fees for sealing	$708 01
Weighers' fees	72 94
	$780 95

EXPENDED.

For acid, Malden Specialty Co.		$25 50	
City scales :—			
C. Mahoney	$35 69		
E. D. Sawyer Lumber Co.	50		
		36 19	
Equipment :—			
Brands, dies and stamps, H. C. Dimond & Co.	$18 64		
Books, Caustic-Claflin Co.	8 25		
Copper measure, Peter Gray & Sons	15 00		
Hardware, Brock & Eaton	3 41		
Weights, The Fairbanks Co.	6 64		
Sundries	3 95		
		55 89	
Office expenses : —			
Advertising, Cambridge Chronicle	$7 50		
Car tickets, Boston Elevated Railway Co	20 00		
Directory, W. A. Greenough & Co.	3 50		
Printing, J. A. Cummings Printing Co.	7 11		
Telephone service	22 40		
Typewriting, A. H. Edgerly	3 50		
Sundries	4 23		
		68 24	
Transfers :—			
Horse board, Street Department	$216 00		
Horseshoeing, Street Department	8 51		
Supplies, Postage and Stationery Account	6 77		
		231 28	
Amounts carried forward		$417 10	$450 00

Public Safety — Continued.

SEALER OF WEIGHTS AND MEASURES, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$417 10	$450 00
For wagon repairs :—			
Burton & McCannon . . .	$30 75		
Hugh McCaffrey	2 15		
		32 90	
Total			450 00

MILITIA AND ARMORIES. (2.7)

RIFLE RANGE.

Appropriation	$650 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For sale of equipment	$100 00

EXPENDED.

For services as keeper of rifle range :—		
Anson J. Webb	$35 41	
Use of targets :—		
Bay State Military Rifle Association	571 10	
Total		606 51
Surplus of appropriation		$43 49
Additional appropriation		100 00
Transfer to this account from Car Tickets to and from Rifle Range		56 51
		$200 00
Transfer from this account to Car Tickets to and from Rifle Range		200 00

CAR TICKETS TO AND FROM RIFLE RANGE.

Appropriation	$300 00

EXPENDED.

For car fares :—		
Chas. H Cutler, Captain Company C, Eighth Regiment . . .	$173 30	
Chas. W. Facey, Captain Company B, Fifth Regiment . . .	165 61	
Wm. J. Greene, Captain Company E, Eighth Regiment . . .	99 96	
Amounts carried forward . . .	$438 87	$300 00

Public Safety — Continued.

MILITIA AND ARMORIES, CAR TICKETS TO AND FROM RIFLE RANGE — Concluded.

Amounts brought forward . .	$438 87		$300 00
For Walter E. Lombard, Captain Company B, First Regiment . .	204 62		
		$643 49	
Total			643 49
Excess of expenditures over appropriation . .			$343 49
Transfers to this account: —			
From Rifle Range			200 00
From Contingent Fund			200 00
Balance transferred to Rifle Range .			$56 51

SCHEDULE A-VIII

APPROPRIATIONS AND EXPENDITURES

No. 3

PUBLIC CHARITY

3. PUBLIC CHARITY.

ALMSHOUSES. (3.4)

CITY FARM, LABOR.

Appropriation		$4,200 00
EXPENDED.		
For labor on farm: —		
Farmer, James Walsh	$795 00	
Employees	3,257 78	
Removing brown tail moths: —		
Michael Sullivan	50 00	
Total		4,102 78
Surplus of appropriation		$97 22
Transfer from this account to Supplies		75 00
Balance relinquished to General Treasury		$22 22

SUPPLIES.

Appropriation			$800 00
DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.			
For sale of farm products, etc.	$4,964 10		
EXPENDED.			
For baskets, Whittier Woodenware Co.		$3 50	
Blankets: —			
Sartwell, Heinold & Humphrey		9 60	
Creosote, Samuel Cabot		5 75	
Hardware, tools and supplies: —			
S. Armstrong Co.	$4 50		
Jos. Breck & Sons, Corporation	39 53		
E. T. Bynner	32 25		
A. Lubbe	57 34		
F. X Masse	4 35		
		137 97	
Hay, grain, etc.: —			
Clark Bros.	$198 76		
J Cushing & Co.	93 70		
C. Edgar Wheeler	30 63		
		323 09	
Horseshoeing, Wm. Balmer		16 00	
Amounts carried forward		$495 91	$800 00

Public Charity — Continued.

CITY FARM, SUPPLIES — Concluded.

Amounts brought forward . .		$495 91	$800 00
For lumber :—			
Geo. W. Gale Lumber Co. . .	$104 61		
Wm. H. Wood & Co. . . .	10 97		
		115 58	
Paint, oil, putty, etc. :—			
Carpenter-Morton Co. . . .		41 61	
Pigs, W. G. Lane		51 00	
Plumbing, T. W. Good . . .		12 52	
Removing brown tail moths :—			
City of Somerville		3 50	
Rent, Mercantile Wharf Corporation		40 00	
Seeds, plants, etc :—			
Schlegel & Fottler Co. . . .		114 79	
Total			874 91
Excess of expenditures over appropriation . . .			$74 91
Transfer to this account from Labor . . .			75 00
Balance relinquished to General Treasury . . .			09

CITY HOME, SALARIES.

Appropriation			$7,740 00
EXPENDED.			
For salaries of :—			
Superintendent, Chas. E. Goodrow		$1,500 00	
Assistant Superintendent, Samuel F. Norris		790 00	
Sundry house employees . .		5,346 76	
Organist, Carrie M. Walker . .		100 00	
Total			7,736 76
Surplus of appropriation relinquished to General Treasury			$3 24

GENERAL EXPENSES.

Appropriation			$12,000 00
DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.			
For barrels	$21 40		
Board	897 48		
Grease and bones . .	40 33		
Junk	5 00		
Lead	3 48		
	$967 69		
Amount carried forward . . .			$12,000 00

Public Charity — Continued.

CITY HOME, GENERAL EXPENSES — Continued

Amount brought forward . .			$12,000 00
	EXPENDED.		
For advertising and printing :—			
Cambridge Chronicle . . .	$6 00		
Globe Newspaper Co. . . .	7 88		
		13 88	
Boots, shoes and repairs :—			
H. E. Butler	$91 10		
F. X. Massé	57 10		
Anthony L. Mottla	47 60		
		195 80	
Bricks and clay :—			
Berry & Ferguson	$4 45		
Parry Brick Co.	4 00		
		8 45	
Bulbs, C S. Pratt		8 05	
Burials, Horace D. Litchfield . .		20 60	
Car tickets :—			
Boston Elevated Railway Co. .		85 00	
Cash expended, C. E. Goodrow :—			
Cash to inmates	$88 00		
Hospital rests	4 40		
Services of clergymen . . .	68 00		
Transportation	1 05		
Zion Herald	2 50		
		163 95	
Cement, lime, etc., Clark Bros. .		11 10	
Clocks and repairs :—			
F A. Colburn	$7 75		
Hersey Manufacturing Co. . .	4 00		
Hussey & Maguire	5 60		
		17 35	
Clothing, dry goods and bedding :—			
Wm. H Blood & Co. . . .	$28 00		
Brown, Durrell & Co. . . .	179 32		
Sol L. Cohen & Co. . . .	80 00		
Creighton Outfitters . . .	5 50		
Farley, Harvey & Co. . . .	248 61		
Frederick Gray Co. . . .	42 00		
F. X. Massé	98 57		
John H. North Co. . . .	5 00		
J. B. Pearson Co.	41 25		
Reformatory Prison for Women .	27 00		
Standard Overall Manufacturing Co.	25 00		
Walker, Stetson Co. . . .	74 89		
Geo. O Whipple . . .	14 75		
		869 89	
Crushed stone :—			
A. J. & G. H. McMurtry . .		10 80	
Directory, W. A. Greenough & Co .		3 50	
Amounts carried forward . .		$1,408 37	$12,000 00

Public Charity — Continued.

CITY HOME, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$1,408 37	$12,000 00
For disinfectant: —			
West Disinfecting Co. . . .	$26 25		
Winchester's Tar Disinfectant Co.	8 50		
		34 75	
Expressage: —			
Danehy's North & Old Cambridge Express		44 30	
Extinguisher: —			
Badger Fire Extinguisher Co. .		8 00	
Fuel: —			
Consumers' Coal Co. . . .	$804 13		
Massachusetts Wharf Coal Co. .	151 20		
		955 33	
Furniture, furnishings and household supplies: —			
Brock Bros.	$42 63		
Wm. Caldwell	74 25		
F. X. Massé	2 86		
F. W. Miller & Co.	8 33		
Whittier Woodenware Co. . .	43 07		
		171 14	
Hardware, tools and repairs and supplies: —			
Boston Woven Hose & Rubber Co.	$5 00		
Brock Bros.	59 91		
E. T. Bynner	28 95		
Ernest W. Clark	9 35		
A. Lubbe	85 93		
F. X Massé	17 49		
Geo. L. Vocell	20 30		
Whittier Woodenware Co. . .	6 38		
		233 31	
Hymn books, The Pilgrim Press .		7 80	
House repairs: —			
Carpentry, Chas. J. Ouellet . .	$60 00		
Electrical work: —			
Chas. Egan	5 50		
Norris Mfg. & Motor Co. . .	12 20		
A. J. St. Coeur	5 50		
Heating apparatus repairs: —			
Campbell Iron Works . .	239 88		
Morandi-Proctor Co. . .	11 00		
Walker & Pratt Mfg. Co. . .	13 25		
Walworth Mfg. Co. . . .	11 77		
Mason work, James Mahoney .	41 05		
Amounts carried forward . . .	$400 15	$2,863 00	$12,000 00

Public Charity — Continued.

CITY HOME, GENERAL EXPENSES — Continued.

Amounts brought forward . .	$400 15	$2,863 00	$12,000 00
For painting, papering, etc.: —			
J. E. Laflamme & Son . .	102 04		
Michael Pitts & Son . . .	28 00		
Plaster work, Harrington & Howell	47 60		
Plumbing: —			
Ernest W Clark	6 50		
T. W. Good	161 93		
Ventilator, T. W. Good . . .	12 00		
Windows, A. W. Hastings & Co. .	8 29		
		766 51	
Ice, Cambridge Ice Co. . . .		173 19	
Insecticide: —			
R S. Downe	$10 00		
Rodes Sanitary Co. . . .	7 50		
		17 50	
Lighting, Cambridge Gas Light Co. .		176 30	
Lumber: —			
A A. Elston & Co.	$16 00		
Geo. W. Gale Lumber Co. . .	114 77		
Wm. H. Wood & Co. . . .	72 16		
		202 93	
Medical and surgical apparatus and instruments: —			
C. H. Goldthwaite & Co. . .		9 50	
Medicines, drugs, chemicals, etc.: —			
Carpenter-Morton Co. . . .	$41 15		
Samuel H. Talbot	31 35		
John A Tupper	309 40		
Warren F. Witherell Co. . .	17 50		
		399 40	
Oils, paints, brushes, etc.: —			
Carpenter-Morton Co. . . .	$78 10		
F. X Massé	2 25		
		80 35	
Plants, B. J. Macklin . . .		4 00	
Posting notices, John Foster . .		15 00	
Rubber goods, Robert Josselyn .		26 41	
Soap, powder, etc: —			
N K. Fairbanks Co. . . .	$131 07		
Rand & Byam	15 00		
John Reardon & Sons Co. . .	11 24		
Standard Chemical Co. . . .	13 93		
		171 24	
Spectacles: —			
Mass. Charitable Eye and Ear Infirmary	$1 80		
Chas P. Van Alstine . . .	8 00		
		9 80	
Amounts carried forward . . .		$4,915 13	$12,000 00

Public Charity — Continued.

CITY HOME, GENERAL EXPENSES — Continued

Amounts brought forward . .		$4,915 13	$12,000 00
For stationery, printing and office supplies :—			
Allen Bros.	$5 05		
Cambridge Chronicle . . .	4 50		
Cotton & Gould	25 96		
J. L Fairbanks & Co. . . .	4 00		
		39 51	
Subscriptions, newspapers, etc. :—			
James W. Hunnewell . . .	$21 00		
William Hunt	4 00		
M. Whalen	3 90		
		28 90	
Subsistence supplies :—			
Bowman & Co.	$127 75		
Boyd, Dalton & Co. . . .	795 76		
Guy C. H. Carlton . . .	333 49		
Cole & Poole	12 60		
Felix Cuguzzo	47 83		
Wm. M. Currier & Co. . . .	38 34		
H C. Edmands Coffee Co. . .	104 35		
R S. Edwards & Co . . .	30 75		
Fleischmann & Co.	36 60		
Foss-Hatfield Co.	17 85		
French, Mitchell, Woodbury Co. .	6 66		
F. C Gemeiner	676 30		
Gillmore & Co.	159 90		
Geo O. Girard	105 64		
G. H. Hammond Co. . . .	30 00		
Handschumacher & Co. . . .	14 86		
J A. Hattie & Co.	3 45		
Hazelton & Co.	326 02		
Home Mills Cereal Co. . . .	30 00		
Andrew J. Lovell & Co. . . .	55 67		
F X. Massé	7 35		
Morris & Co.	30 00		
Hannah M. Nelligan . . .	1,135 95		
Oakdale Manufacturing Co. . .	78 60		
C O'Brien	2,444 89		
J. H Pierce & Co.	34 15		
Frederick C Small & Co. . .	71 92		
John P. Squire & Co. . . .	5 70		
John P. Squire & Sons . . .	81 53		
John A Tupper	30 90		
J Fred Vaughan	60 60		
Vermont Manufacturing Co. . .	103 20		
Chas F. Wood	66 14		
		7,104 75	
Teaming, T. A. Callaghan . .		14 50	
Telephone service		94 37	
Transfers : —			
Burial fees, Cemetery Dept. . .	$10 00		
Sealing : —			
Sealer of Weights and Measures	1 72		
Amounts carried forward . . .	$11 72	$12,197 16	$12,000 00

Public Charity — Continued.

CITY HOME, GENERAL EXPENSES — Concluded.

Amounts brought forward . .	$11 72	$12,197 16	$12,000 00
For supplies, Postage and Stationery Account	24 00		
		35 72	
Wall paper, R. Federman . . .		14 47	
Sundries		2 65	
Total			12,250 00
Excess of expenditures over appropriation . . .			$250 00
Transfer to this department from House Offal, Labor			250 00

HOSPITALS. (3.1)

CITY HOME HOSPITAL.

Appropriation $1,750 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For board . . . $105 50

EXPENDED.

For services of :—			
Nurse, Caroline E. Fandel . .	$237 15		
Attendant, Mollie Murphy . .	51 00		
Attendant, Laura T. Crawford .	61 10		
Cleaner, Rose Gilbert . . .	71 00		
		$420 25	
Carpentry, C. H. Callahan & Son .		174 31	
Crushed stone, A J. & G. H. McMurtry		10 80	
Electrical work, Chas. Egan . .		35 05	
Extinguisher :—			
Badger Fire Extinguisher Co. .		8 00	
Fuel, Massachusetts Wharf Coal Co.		56 00	
Furniture, furnishings and household supplies :—			
Brown, Durrell & Co. . . .	$10 63		
Wm. Caldwell	403 51		
Farley, Harvey & Co. . . .	23 78		
A. Lubbe	44 60		
F X. Massé	5 72		
S. C. Small & Co.	13 00		
Simplex Electric Heating Co. .	4 60		
Whittier Woodenware Co. . .	17 85		
		523 69	
Heating apparatus, T. W. Good .		239 44	
Lighting, Camb. Electric Light Co. .		36 06	
Lumber, Geo. W. Gale Lumber Co. .		7 71	
Amounts carried forward . . .		$1,511 31	$1,750 00

Public Charity — Continued.

CITY HOME HOSPITAL — Concluded.

Amounts brought forward . .		$1,511 31	$1,750 00
For medical and surgical apparatus and supplies :—			
C. H. Goldthwaite & Co. . .	$59 45		
Samuel H. Talbot	71 40		
Warren F. Witherell Co. . .	8 00		
		138 85	
Painting, J. T. Lane		25 00	
Rubber goods, Robert Josselyn . .		24 94	
Screens, Screen & Shade Co. . .		22 80	
Stamps, Allen Bros.		4 55	
Stationery, Cotton & Gould . .		5 25	
Subsistence supplies, Chas. F. Wood		16 02	
Total			1,748 72
Surplus of appropriation relinquished to General Treasury			$1 28

OUTDOOR RELIEF. (3.5)

SALARIES.

Appropriation	$2,755 00

EXPENDED.

For salaries of : —		
Secretary, David P. Muzzey . .	$1,500 00	
Clerk, Addie M. Benson . .	780 00	
Driver, Michael O'Reagan . .	468 75	
Total		2,748 75
Surplus of appropriation relinquished to General Treasury		$6 25

GENERAL EXPENSES.

Appropriation	$14,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For aid	$270 46
Burials	33 75
Ambulance . . .	6 00
Medical aid . . .	75
Medicines . . .	80
Support . . .	1,087 61
	$1,399 37

EXPENDED.

For aid to sundry persons : —		
Cash pay roll	$300 44	
Amounts carried forward . . .	$300 44	$14,000 00

Public Charity — Continued.

OUTDOOR RELIEF, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$300 44	$14,000 00
By cities and towns: —			
City of Boston .	$1,917 80		
Brockton . . .	45 94		
Chelsea . . .	3 25		
Everett . . .	175 20		
Fall River . . .	238 00		
Haverhill . . .	84 20		
Lowell . . .	9 50		
Lynn . . .	7 60		
Malden . . .	11 45		
Newton . . .	102 20		
New Bedford . .	48 00		
Quincy . . .	8 00		
Salem . . .	45 00		
Somerville . . .	295 55		
Waltham . . .	71 28		
Woburn . . .	67 34		
		$3,130 31	
Town of Cohasset . .	$79 13		
Leominster . .	116 28		
Medway . . .	7 26		
Norwood . . .	10 00		
Reading . . .	11 00		
Revere . . .	47 00		
Westwood . . .	49 20		
Winchester . . .	34 50		
Wrentham . . .	29 00		
		383 37	
			3,513 68
Binding, James M. Sullivan .			7 70
Board and care: —			
Commonwealth of Massachusetts at State Hospital . . .			687 60
Board and care: —			
Cambridge Hospital . . .		$248 61	
Carney Hospital		267 84	
Children's Hospital . . .		13 00	
Mrs. Mary H. Cooke . . .		30 00	
Foxborough State Hospital . .		135 86	
Chester D. Holmes . . .		68 25	
Mass. General Hospital . . .		9 00	
Mass. Hospital for Dipsomaniacs .		401 28	
Mass. Hospital for Epileptics .		344 08	
Mass. School for the Feeble-minded		2,086 96	
Sherman Hospital for Incurables .		146 20	
			3,751 08
Care of insane: —			
Taunton Insane Hospital . .			27 39
Burials, Horace D. Litchfield . .			71 80
Car tickets: —			
Boston Elevated Railway Co. .			200 00
Amounts carried forward . . .			$8,559 69 $14,000 00

Public Charity — Continued.

OUTDOOR RELIEF, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$8,559 69	$14,000 00
For cash expended :—			
Chas. E Goodrow	$22 10		
Samuel F. Norris	1 90		
		24 00	
Clothing, dry goods :—			
Sol. L. Cohen & Co. . . .		16 50	
Clock repairs, Miller Bros . .		1 00	
Coal sacks, H. & L. Chase . .		8 50	
Directories :—			
W. A. Greenough & Co. . .	$10 50		
Sampson & Murdock Co. . .	6 00		
		16 50	
Disinfectant, West Disinfecting Co.		6 83	
Electrical work, F. Bryant & Co. .		3 20	
Expressage, Savage & Son . .		85	
Fuel :—			
Massachusetts Wharf Coal Co. .	$733 60		
Metropolitan Coal Co. . . .	974 81		
		1,708 41	
Gas radiator, E T. Bynner . .		4 00	
Harness, M. Cavanagh . . .		35 00	
Index of Revised Laws :—			
Fred L Beunke		2 50	
Lighting :—			
Cambridge Electric Light Co. .	$13 29		
Cambridge Gas Light Co. . .	8 90		
		22 19	
Laundering, Lutz & Loomer . .		1 50	
Medicines, drugs, etc. : —			
James A. Bird	$0 90		
A. Cunningham Drug Co. . .	87 00		
J. H. Fitzgerald	9 40		
W. H. Frazier	1 40		
Chas H. Gaffney	95		
F. C. Gemeiner	153 75		
Wm. B. Hunt & Co. . . .	37 16		
Albert W. Kidder	8 45		
G. C. Kinsley	1 55		
Elie H. La Pierre	51 39		
Albert E. Lynch & Co. . . .	11 80		
Frank K. Lynch	2 10		
Geo. A. Miller	1 80		
W. B. Milliken	5 10		
Maurice O'Donnell	8 63		
John B. O'Hara	1 10		
E. H. Patten	13 10		
Samuel H. Talbot	1 35		
John A. Tupper	5 85		
J. A. S. Woodrow	1 25		
		404 03	
Amounts carried forward . . .		$10,814 70	$14,000 00

Public Charity — Continued.

OUTDOOR RELIEF, GENERAL EXPENSES — Continued.

Amounts brought forward		$10,814 70	$14,000 00
For medical and surgical apparatus and instruments: —			
Buzzell-Flanders Co.	$6 60		
C. H. Goldthwaite Co.	90		
Robert Josselyn	1 88		
		9 38	
Paper bags, Wm. H. Claflin & Co.		13 75	
Professional services: —			
Philip M. Fitzsimons, M. D.	$6 00		
John E. Somers, M. D	5 00		
		11 00	
Railroad guide, Pocket Manual Co.		1 00	
Repairing faucet, Herbert L. Rose		50	
Runners, Henderson Bros.		35 00	
Services as attendants: —			
Florence E. Barrett	$2 00		
John T. Cook	18 00		
Warren H. Dow	16 00		
Chester S. Norris	2 00		
Geo E Sherman	20 00		
Ellen S. Stewart	17 00		
Dennis J Sullivan	15 00		
		90 00	
Soap: —			
N. K. Fairbank Co.	$29 70		
Rand & Byam	15 00		
		44 70	
Stationery, printing and office supplies: —			
Wm. G. Brousseau, M. D.	$0 50		
Cotton & Gould	120 94		
J. A. Cummings Printing Co.	72 54		
Emry Davis	4 00		
Macey-Wernicke Co.	4 15		
		202 13	
Subsistence supplies: —			
M. S. Ayer & Co.	$42 00		
Boyd, Dalton & Co.	685 51		
Bowman & Co.	29 00		
J. Cushing & Co	1 70		
R. S. Edwards & Co.	181 85		
F. C. Gemeiner	637 50		
Gillmore & Co.	304 20		
Hecker-Jones-Jewell Milling Co.	211 75		
John P. Nelligan	1 40		
J. H. Pierce & Co.	75 42		
John P. Squire & Sons	136 25		
J. Fred Vaughan	113 50		
		2,420 08	
Telephone service		109 69	
Amounts carried forward		$13,751 93	$14,000 00

Public Charity — Continued.

OUTDOOR RELIEF, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$13,751 93	$14,000 00
For transportation: —			
Annie L. Chesley	$30 00		
Boston & Maine Railroad . .	54 90		
		84 90	
Transfer: —			
Supplies, Postage and Stationery Account	$48 00		
Burial fees, Cemetery Department	44 00		
Ambulance removals, Police Dept.	42 00		
		134 00	
Wagon repairs, T. H. Kneeland .		20 00	
Weighing coal, Chas. F. Long .		7 20	
Total			13,998 03
Surplus of appropriation relinquished to General Treasury			$1 97

OUTDOOR RELIEF. (3.5)

CITY PHYSICIAN.

SALARY.

Appropriation	$1,500 00

EXPENDED.

For salary of City Physician: —		
Wm. G. Brousseau, M. D. . .	$1,500 00	
Total		$1,500 00

MISCELLANEOUS. (3.9)

STATE AID.

Appropriation	$25,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

From the Commonwealth of Massachusetts in reimbursement, in part, of the amount the City has advanced in conformity to the laws of the State, to volunteers and their families, or other dependents of volunteers of the army and navy: —		
For Military Aid . .	$377 00	
State Aid . . .	13,113 50	
Burials of soldiers and sailors . . .	735 00	
Amounts carried forward	$14,225 50	$25,000 00

Public Charity — Continued.

STATE AID — Continued.

Amounts brought forward	$14,225 50	$25,000 00
From sundry persons :—		
Board	288 00	
Money uncalled for on pay-rolls	228 00	
Relief :—		
Town of Northboro	42 00	
	$14,783 50	

EXPENDED.

For salary of clerk, Eben W. Pike		$500 00
State Aid	$13,979 50	
Military Aid	1,001 00	
Soldiers and Sailors' Aid	9,582 00	
		24,562 50
Ambulance service, Chas. W. Dailey		15 00
Burials :—		
D. F. Corcoran	$105 00	
H. R. Crane & Co.	35 00	
Est. of Daniel P. Danehy	35 00	
Basil F. Hutchins	70 00	
Jos. J. Kelley & Son	35 00	
Judson Litchfield	35 00	
H. D. Litchfield	140 00	
A. E. Long & Son	70 00	
James F. Mullen	35 00	
W. N. Nealley	70 00	
Peter Nelligan	35 00	
Jos. H Ricker & Co.	35 00	
James J. Shea	70 00	
Joseph S. Waterman & Sons	35 00	
		805 00
Car tickets :—		
Boston Elevated Railway Co		20 00
Cash expended, Eben W. Pike		4 50
Fuel :—		
Bay State Fuel Co.	$20 43	
H. L. Carstein	23 16	
Coleman Bros.	135 15	
Clark Bros.	23 45	
		202 19
Medicines, L. E. Hubbard		90
Nursing, Angelina E. Padelford		5 00
Professional services :—		
Wm. G Brousseau, M. D.	$26 50	
S. N. Murphy, M. D.	20 00	
John E. Somers, M. D.	5 00	
		51 50
Repairing chairs, Annie L. Chesley		1 50
Amounts carried forward		$26,168 09 $25,000 00

Public Charity — Concluded.

STATE AID — Concluded.

Amounts brought forward . .		$26,168 09	$25,000 00
For services as attendants: —			
John T. Cook	$2 00		
Geo. E. Sherman	2 00		
		4 00	
Stationery, printing, etc.: —			
Cambridge Chronicle . . .	$33 00		
Cotton & Gould	5 00		
J A. Cummings Printing Co. .	19 76		
		57 76	
Supplies: —			
E. A. Carney	$81 00		
John J. Whelan & Son . . .	94 00		
Woodman & Milliken . . .	48 00		
		223 00	
Transfers: —			
Ambulance removals, Police Dept.	$3 00		
Board, Overseers of the Poor .	368 53		
Medicines, Overseers of the Poor .	1 60		
Supplies, Postage and Stationery Account	20 07		
		393 20	
Total			26,846 05
Excess of expenditures over appropriation . . .			$1,846 05
Additional appropriation			1,850 00
Balance relinquished to General Treasury . . .			$3 95

SCHEDULE A-VIII

APPROPRIATIONS AND EXPENDITURES

No. 4

PUBLIC HIGHWAYS AND SANITATION

4. PUBLIC HIGHWAYS AND SANITATION.

ADMINISTRATION. (4.1)

ENGINEERING DEPARTMENT.

SALARIES.

Appropriation		$9,000 00
EXPENDED.		
For salaries of :—		
City Engineer, L. M. Hastings	$3,000 00	
Assistants	4,890 94	
Clerk, Mary E. Rowen	395 00	
	8,285 94	
Total		$8,285 94
Surplus of appropriation		$714 06
Transfer from this account to General Expenses		100 00
Balance relinquished to General Treasury		$614 06

GENERAL EXPENSES.

Appropriation		$800 00
Department Receipts Carried to General Treasury.		
For refund on account of error in bill : —		
Louis W. Cutting Co.	$5 80	
EXPENDED.		
For atlas, Geo. H. Walker & Co.	$25 00	
Bag, Tobias & Wall	6 00	
Binding, Boston Bookbinding Co.	3 00	
Car tickets : —		
Boston Elevated Railway Co.	250 00	
Carpentry, W. H. Norris	14 27	
Cash expended for sundries : —		
L. M. Hastings	50	
Cotton cloth, Louis W. Cutting Co.	17 10	
Directory, W. A. Greenough & Co.	3 50	
Expressage : —		
American Express Co.	$0 35	
Milliken's Express	50	
Savage & Son	60	
Sawin's Express	1 35	
	2 80	
Glass : —		
Pittsburg Plate Glass Co.	5 12	
Amounts carried forward	$327 29	$800 00

Public Highways and Sanitation — Continued.

ENGINEERING DEPARTMENT, GENERAL EXPENSES — Concluded.

Amounts brought forward		$327 29	$800 00
For hardware, tools and supplies: —			
E. T. Bynner	$19 24		
Wm. B. Hunt & Co.	82		
A. M. Robbins	1 50		
		21 56	
Lumber: —			
Geo. W. Gale Lumber Co.	$0 60		
W. H. Norris	4 26		
		4 86	
Maps, etc.: —			
Forbes Lithograph Mfg. Co.	$64 96		
Home Educator Co.	98		
		65 94	
Photographic goods, blue prints, etc.: —			
Chas E Moss	$13 75		
John H. Thurston	2 00		
Spaulding Print Paper Co.	11 97		
		27 72	
Repairing locks, Phipps & Co.		40	
Repairing instruments: —			
Buff & Buff Manufacturing Co.		19 10	
Repairing gas heater, Greene & Co.		2 91	
Stationery, printing, and drawing materials: —			
Cambridge Chronicle	$5 00		
Cotton & Gould	21 60		
J. A. Cummings Printing Co.	31 85		
S. P. Fergusson	3 25		
Frost & Adams Co.	87 33		
Alfred Mudge & Son	33 00		
Geo. F. Schwartz Co.	50		
		182 53	
Stamps, Pneumatic Hand Stamp Co.		1 19	
Subscriptions: —			
Engineering Record	$3 00		
Engineering News Publishing Co.	5 00		
		8 00	
Telephone service		100 54	
Traveling expenses, L. M. Hastings		18 00	
Typewriter repairs: —			
Smith Premier Typewriter Co.		67 55	
Transfer: —			
Supplies, Postage and Stationery Account		30 85	
Total			878 44
Excess of expenditures over appropriation			$78 44
Transfer to this account from Salaries			100 00
Balance relinquished to General Treasury			$21 56

Public Highways and Sanitation — Continued.

ADMINISTRATION. (4.1)

SALARIES OF SUPERINTENDENT OF STREETS AND CLERKS.

Appropriation			$4,520 00
EXPENDED.			
For salaries of :—			
Superintendent, Geo. M. Clukas		$2,000 00	
Clerks :—			
Henry P. Fielding	$1,383 02		
Maude E. Foster	582 00		
Rose E. Manning	133 33		
Adah N. Bowles	384 17		
		2,482 52	
Total			4,482 52
Surplus of appropriation relinquished to General Treasury			$37 48

OPENING, GRADING, WIDENING STREETS. (4.2)

LAND DAMAGES.

Appropriation			$8,762 10
EXPENDED.			
For examination of titles, etc. :—			
Wm. V. Thompson	$32 00		
Geo. D. Wildes	60 00		
		$92 00	
Recording deeds :—			
Edwin O. Childs, Register		12 05	
Harvey Street :—			
Land and damage :—			
Willard A. Bullard and Henry Endicott	$5,264 60		
Abel Fitch	20 00		
		5,284 60	
Laurel Street :—			
Land and damage :—			
Emma J. Boardman	$18 70		
George E Carruth	14 30		
Catherine J. Curley	1,486 02		
John J. Curley	79 59		
Heirs of Dennis Healey	55 67		
Eliza M Lumb	688 00		
Mary A. Murphy	19 25		
Manfred A. Schaffer	19 53		
		2,381 06	
Amounts carried forward		$7,769 71	$8,762 10

Public Highways and Sanitation — Continued.

LAND DAMAGES — Concluded.

Amounts brought forward . .		$7,769 71	$8,762 10
For Madison Street :—			
Land and damage :—			
Edwin Dresser	$50 00		
Catherine Normoyle . . .	50 00		
		100 00	
Museum Street :—			
Land and damage, Norton, et al.		100 00	
Wright Street :—			
Land and damage :—			
Alfred Bowditch, et al., Trustees		275 00	
Total			8,244 71
Surplus of appropriation relinquished to General Treasury			$517 39

OPENING, GRADING AND WIDENING STREETS. (4.2)

STREET CONSTRUCTION.

Appropriation			$57,658 89
EXPENDED.			
For labor as per pay roll . . .		$17,635 27	
Bitulithic surfacing :—			
Warren Bros. Co.		6,312 38	
Cement, Windsor Cement Co. . .		786 15	
Gravel and freight :—			
Boston & Maine Railroad . .	$661 12		
Miss Josephine Stone . . .	36 50		
		697 62	
Hardware, tools, etc. :—			
Ames Plow Co.	$5 25		
Joseph Breck & Sons, Corporation	40 00		
Brock Bros.	32 08		
E. T. Bynner	35 20		
Colonial Supply Co. . . .	12 67		
Dodge-Haley Co.	38 87		
		164 07	
Hay, grain and straw :—			
J. Cushing & Co.	$456 35		
E. R. Luke & Co.	26 72		
		483 07	
Lanterns, Pill Bros.		61 90	
Lumber :—			
Geo. W Gale Lumber Co. . .	25 40		
Wm. H. Wood & Co. . . .	7 14		
		32 54	
Oatmeal, J. A. Holmes & Co. . .		10 90	
Amounts carried forward . . .		$26,183 90	$57,658 89

Public Highways and Sanitation — Continued.

STREET CONSTRUCTION — Concluded.

Amounts brought forward . .		$26,183 90	$57,658 89
For oil: —			
F. X Massé	$0 55		
Thomas R. Nevins	59 00		
Standard Oil Co.	92 26		
		151 81	
Pitch: —			
New England Felt Roofing Works		68 20	
Stone: —			
Crushed stone: —			
Waltham Trap Rock Co. . .	$731 80		
Concrete stone, Wm. B. Mullen .	542 90		
Edgestones, S. & R. J. Lombard .	3,948 93		
Field stone, sundry persons . .	222 60		
Gutter stone, S. & R. J. Lombard .	699 05		
Granite paving blocks: —			
S. & R. J. Lombard . . .	15,280 43		
Granite flagging, S & R. J. Lombard	150 07		
		21,575 78	
Teaming, sundry persons . . .		2,890 63	
Vitrified paving blocks and freight: —			
Boston & Maine Railroad . .	$40 62		
Ferris Paving Brick Co. . .	204 18		
Metropolitan Paving Brick Co. .	1,895 03		
New York Central & Hudson River Railroad Co.	2,541 31		
		4,681 14	
Total			55,551 46
Surplus of appropriation relinquished to General Treasury			$2,107 43

OPENING, GRADING AND WIDENING STREETS. (4.2)

STREET CONSTRUCTION.

MOUNT AUBURN BRIDGE.

Appropriation	$2,824 21

EXPENDED.

For construction of bridge, crossing and approach: —		
Fitchburg Railroad Co. . . .	$2,824 21	
Total		2,824 21

Public Highways and Sanitation — Continued.

OPENING, GRADING AND WIDENING STREETS. (4.2)

BOARD OF SURVEY.

Appropriation		$175 00
EXPENDED.		
For salary of clerk, John McDuffie	$75 00	
Advertising, Cambridge Chronicle	15 12	
Car tickets :—		
Boston Elevated Railway Co.	10 00	
Clerical work, Eben W. Pike	2 00	
Stationery, printing, etc. :—		
Cotton & Gould $0 75		
J. A. Cummings Printing Co. 8 06		
	8 81	
Typewriting, Elizabeth M. Connell	1 00	
Transfer :—		
Postage and Stationery Account	2 25	
Total		114 18
Surplus of appropriation relinquished to General Treasury		$60 82

STREET PAVING. (4.3)

STREET MAINTENANCE.

Appropriation		$70,000 00
DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.		
For bricks	$14 30	
Granite blocks	216 37	
Horses	80 00	
Horse board	222 67	
Horseshoeing	97 08	
Old iron	104 33	
Permit fees	31 00	
Refund	10 90	
Scrapings	104 40	
Settlement for damages	119 48	
Stone	55 84	
Stone dust	9 54	
Use of steam roller and cart	77 50	
Wood	27 00	
Sundries	10 39	
	$1,180 80	
Amount carried forward		$70,000 00

Public Highways and Sanitation — Continued.

STREET MAINTENANCE — Continued.

Amount brought forward . .			$70,000 00
EXPENDED.			
For labor, as per pay roll . . .		$43,484 12	
Bricks, Parry Brick Co. . . .		48 75	
Carriage and wagon repairs: —			
G. W Burditt	$14 92		
Dodge-Haley Co.	348 59		
Ira G. Hersey	4 50		
Stephen J. Moran	55 75		
Chas. Waugh & Co. . . .	51 60		
A. M. Wood Co.	136 66		
Sundry persons	3 80		
		615 82	
Cement: —			
Geo. W. Gale Lumber Co. . .	$2 00		
Windsor Cement Co. . . .	34 60		
		36 60	
Fuel: —			
Consumers' Coal Co. . . .	$1,080 56		
Mass. Wharf Coal Co. . . .	111 55		
Metropolitan Coal Co. . . .	455 50		
		1,647 61	
Gravel, freight and teaming: —			
Boston & Maine R. R. . . .	$22 61		
Estate of John McGuinness . .	58 50		
Josephine E. Stone . . .	179 26		
Tuttle & Newton	2 40		
		262 77	
Hardware, tools and repairs, etc: —			
Jos. Breck & Sons, Corporation .	$6 76		
Brock Bros.	53 47		
E. T. Bynner	26 23		
Colonial Supply Co. . . .	27 75		
Dodge-Haley Co.	111 00		
H. J. Shaw	9 88		
Daniel J. Sullivan . . .	35 65		
Sundry persons	3 80		
		274 54	
Harness and repairs and horse clothing: —			
H. C. Boardman	$3 00		
E T. Bynner	4 00		
Nelson T. Cabana	172 25		
M. Cavanagh	190 40		
Joseph Cogan	55 00		
James Curry	111 50		
James Forgie's Sons . . .	36 50		
John H. Fuller	132 60		
F. Ivers & Son	53 75		
F. X. Massé	6 50		
Hugh McCaffrey	173 37		
New England Rendering Co. . .	5 00		
Fred D. Norton	17 50		
W. W. Reid Manufacturing Co. .	4 50		
Sartwell, Heinold & Humphrey .	165 10		
		1,130 97	
Amounts carried forward . . .		$47,501 18	$70,000 00

Public Highways and Sanitation — Continued.

STREET MAINTENANCE — Continued.

Amounts brought forward . .			$47,501 18	$70,000 00
For hay, grain and straw :—				
P. A. Clarke & Co. . . .		$150 62		
J Cushing & Co.		3,478 90		
Enos & Holmes		206 25		
E. R. Luke & Co.		945 78		
H. P. McLaughlin & Co. . .		62 57		
Robert T. Ross		32 40		
			4,876 52	
Horses, Welch & Hall Co. . .			81 47	
Horseshoeing stock :—				
Wm. Balmer		$4 00		
Dodge-Haley Co.		360 33		
Geo. M. Clukas		4 35		
			368 68	
Lighting :—				
Electric lighting :—				
Cambridge Electric Light Co. .		$292 77		
Electrical supplies :—				
Boston Incandescent Lamp Co. . .	$12 00			
Cambridge Electric Light Co. . .	1 92			
Electric Gas Lighting Co.	39 79			
		53 71		
Lanterns, etc. :—				
E. T. Bynner . .	$8 30			
Dodge-Haley Co. .	8 68			
F. X. Massé . .	3 90			
		20 88		
Oil :—				
Thomas R Nevins .	$10 23			
Standard Oil Co. .	5 75			
		15 98		
			383 34	
Office expenses and telephone service :—				
Advertising, Cambridge Chronicle		$60 25		
Binding :—				
David Farquhar . .	$7 10			
U. Holzer . . .	6 75			
		13 85		
Car tickets, Boston Elevated Railway Co.		10 00		
Directory, W. A. Greenough & Co.		3 50		
Stationery and printing :—				
Fred L. Beunke . .	$1 15			
Cambridge Chronicle .	63 00			
Cotton & Gould . .	98 00			
J. A. Cummings Printing Co. . . .	20 55			
Amounts carried forward .	$182 70	$87 60	$53,211 19	$70,000 00

Public Highways and Sanitation — Continued.

STREET MAINTENANCE — Continued.

Amounts brought forward	$182 70	$87 60	$53,211 19	$70,000 00
For J. Frank Facey	17 50			
Globe-Wernicke Co.	3 85			
Will J. Hayner	4 50			
Lord's Electric Print	47 70			
		256 25		
Subscription :—				
Municipal Journal Publishing Co.		3 00		
Sundries		3 69		
Telephone holder, C. G. Gilbert		4 00		
Telephone service		345 09		
Typewriter repairs :—				
Smith Premier Typewriter Co.		5 15		
Typewriting, Annie M. Vallely		20 00		
			724 78	
Painters' supplies : —				
Brock Bros.		$67 00		
E. T. Bynner		145 88		
John L. Whiting & Son Co.		25 45		
			238 33	
Stable repairs : —				
Brock Bros.		$37 36		
Campbell Iron Works		5 48		
Chas. A. Claflin & Co.		37 07		
Dodge-Haley Co.		4 43		
Geo. W. Gale Lumber Co.		138 42		
Ira G. Hersey		8 25		
Samuel McCulloch		54 30		
Moynahan & Co.		19 54		
Priest, Page & Co.		4 88		
A. M Robbins		30 05		
H. J. Shaw		82 00		
W. A Snow Iron Works		12 00		
Wm. H. Wood & Co.		125 40		
Sundry persons		4 15		
			563 33	
Stable supplies : —				
Beggs & Cobb		$2 25		
Brock Bros.		18 60		
E. T. Bynner		133 90		
Nelson T. Cabana		27 00		
A. C. Curtis		14 41		
Dodge-Haley Co.		16 15		
Henry S. Harris & Son		19 80		
G. C. Kinsley		10 94		
Lever Bros. Co.		7 60		
A. M. Loker Co.		25 50		
F. X. Massé		62 56		
Frank P. Merrill Co.		13 00		
Warren Bros. Co.		26 40		
			378 11	
Amounts carried forward			$55,115 74	$70,000 00

Public Highways and Sanitation — Continued.

STREET MAINTENANCE — Continued.

Amounts brought forward . .		$55,115 74	$70,000 00
For steam rollers, repairs and supplies: —			
American Road Roller Co. . .	$752 75		
Barbour-Stockwell Co. . . .	57 35		
Boston & Maine R. R. . . .	53 54		
Boston Engineers' Supply Co. .	26 46		
Buffalo Steam Roller Co. . .	406 21		
E. T. Bynner	19 70		
Campbell Iron Works . . .	130 67		
Chas. A. Claflin & Co. . . .	135 74		
Walter W. Field	576 34		
A. H. Hews & Co.	449 52		
W. A. Morrison	44 72		
H. J. Shaw	10 58		
A. J. Wilkinson & Co. . . .	24 50		
Sundry persons	3 42		
		2,691 50	
Stone: —			
Crushed stone: —			
Waltham Trap Rock Co. . .	$5,949 76		
Field stone, sundry persons . .	3,019 10		
		8,968 86	
Stone crushers, repairs and supplies: —			
H. S. Angus & Son	$20 00		
Boston Engineers' Supply Co. .	26 45		
Boston Woven Hose & Rubber Co.	8 00		
Campbell Iron Works . . .	42 00		
Chas. A. Claflin & Co. . . .	43 39		
F. H. Davis & Co.	10 60		
Farrel Foundry & Machine Co. .	51 81		
Fay Bros.	18 00		
Geo. W. Gale Lumber Co. . .	5 06		
Herrick Co.	68 81		
A. H. Hews & Co.	23 16		
J. H. Houghton	8 15		
Knowles Steam Pump Works . .	66 40		
Geo. McQuesten Co. . . .	29 20		
W. A. Morrison	44 73		
Robb-Mumford Boiler Co. . .	4 75		
Taylor Iron & Steel Co. . . .	210 35		
Sundry persons	5 32		
		686 18	
Street signs: —			
G. W. Burditt	$10 80		
Geo. W. Gale Lumber Co. . .	36 00		
		46 80	
Teaming: —			
Sundry persons, as per pay rolls .		1,928 44	
Transfers: —			
Electrical work, Electrical Dept. .	$1 75		
Office supplies, Postage and Stationery	149 63		
Sealing, Sealer of Weights and Measures	4 48		
		155 86	
Amounts carried forward . . .		$69,593 38	$70,000 00

Public Highways and Sanitation — Continued.

STREET MAINTENANCE — Continued.

Amounts brought forward . .		$69,593 38	$70,000 00
For miscellaneous: —			
Axle grease, G. W. Burditt . .	$15 13		
Bicycle repairs: —			
E. H. McDuffee . . $5 00			
J. F. Murphy . . 5 75			
Sundry persons . . 4 00			
	14 75		
Carriage hire, G. F. Whiting & Co.	3 00		
Cash expended for sundries: —			
Geo. M. Clukas	5 55		
Cleaning coat damaged by steam roller: —			
Mary E. Landrigan . . .	1 50		
Expressage: —			
American Express Co. $4 45			
Sundry persons . . 2 30			
	6 75		
Horse clipping: —			
Ferris & Co. . . $3 00			
Fred D. Norton . . 7 50			
	10 50		
Ice, Fresh Pond Ice Co. . . .	19 31		
Lumber and mill work: —			
Ira G. Hersey . . $3 42			
Geo W. Gale Lumber Co. 123 10			
Wm. H. Wood & Co. . 9 99			
	136 51		
Oakum: —			
Boston Engineers' Supply Co . . $3 25			
Dodge-Haley Co. . 4 60			
	7 85		
Oat meal, J. A. Holmes & Co. .	10 90		
Painting flag-pole, housing, etc.: —			
Boston Flag Pole Co. . . .	29 50		
Removing horses: —			
E A. Muller . . $10 00			
New England Rendering Co. . . 5 00			
	15 00		
Repairing clock, Frank R. Kenney	1 00		
Re-upholstering chairs: —			
David Thomson	19 50		
Amounts carried forward . . .	$296 75	$69,593 38	$70,000 00

Public Highways and Sanitation — Continued.

STREET MAINTENANCE — Concluded.

Amounts brought forward . .	$296 75	$69,593 38	$70,000 00
For sleighs: —			
Frank P. Merrill . . $35 00			
Fred D. Norton . . 25 00			
Chas. Waugh & Co. . 25 00			
	85 00		
Sundry supplies: —			
Brock Bros. . . $3 04			
E. T. Bynner . . 25			
F. X. Massé . . 1 97			
	5 26		
Traveling expenses, Geo. M. Clukas	14 95		
		401 96	
Total			69,995 34
Surplus of appropriation relinquished to General Treasury			$4 66

STREET PAVING. (4.3)

REBUILDING STREETS.

Appropriation			$52,414 72
EXPENDED.			
For labor, as per pay-rolls . . .		$18,355 25	
Bricks, Parry Brick Co. . . .		141 70	
Bitulithic surfacing: —			
Warren Bros. Co.		16,399 35	
Cement, Windsor Cement Co. . .		2,363 40	
Fuel, Consummers' Coal Co. . .		39 89	
Gravel and freight: —			
Boston & Maine R. R. . . .	$244 39		
Josephine Stone	3 25		
		247 64	
Hardware, tools, etc.: —			
Ames Plow Co.	$30 87		
Harold L. Bond Co. . . .	16 50		
Jos. Breck & Sons, Corporation .	55 50		
Brock Bros.	41 51		
E. T. Bynner	27 15		
Colonial Supply Co. . . .	58 50		
Dodge-Haley Co.	17 75		
		247 78	
Hay, grain and straw: —			
J. Cushing & Co.		439 32	
Lanterns: —			
Brock Bros	$8 47		
Pill Bros.	134 25		
		142 72	
Amounts carried forward . . .		$38,377 05	$52,414 72

Public Highways and Sanitation — Continued.

REBUILDING STREETS — Concluded.

Amounts brought forward . .		$38,377 05	$52,414 72
For oil :—			
Thomas R. Nevins	$43 55		
Standard Oil Co.	37 50		
		81 05	
Lumber :—			
Geo. W. Gale Lumber Co. . .		22 82	
Paving Massachusette Ave. between Railroad Crossing and Harvard Bridge :—			
Warren Bros. Co		122 76	
Pitch :—			
New England Felt Roofing Works		70 70	
Repairs to asphalt pavement :—			
Warren Bros. Co.		342 00	
Stone :—			
Cement stone, Wm. B. Mullen .	$172 80		
Crushed stone, Wm. J. McCarthy	582 51		
Crushed stone, Waltham Trap Rock Co.	2,366 85		
Edgestones, S. & R. J. Lombard .	937 35		
Field stone, sundry persons . .	1,322 26		
Granite paving blocks, S. & R. J. Lombard	1,577 13		
Granite flagging, S. & R. J. Lombard	36 25		
		6,995 15	
Sundries : —			
E. T. Bynner	$1 38		
Estate of John McGuinness . .	2 50		
Miss Josephine Stone . . .	19 00		
		22 88	
Teaming :—			
Sundry persons, as per pay-rolls .		1,440 63	
Vitrified paving blocks and freight :—			
Boston Elevated Railway Co. .	$4 50		
Boston & Maine R. R. . . .	1,177 12		
Metropolitan Paving Brick Co. .	2,317 87		
N. Y. Central & Hudson River R. R. Co.	1,343 56		
		4,843 05	
Vitrified brick paving : —			
Boston Elevated Railway Co. .		76 19	
Total			52,394 28
Surplus of appropriation relinquished to General Treasury			$20 44

Public Highways and Sanitation — Continued.

SUBWAY AT RAYMOND STREET.

Appropriation		$6,500 00
EXPENDED.		
For labor, as per pay rolls	$132 00	
Constructing footway under Boston & Maine Railroad, as per contract with James H. Fannon	750 00	
Total		882 00
Surplus of appropriation relinquished to General Treasury		$5,618 00

SIDEWALKS. (4.4)

PAVING, EDGESTONES AND SIDEWALKS.

Appropriation			$30,000 00
DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.			
For labor and materials	$375 04		
EXPENDED.			
For labor, as per pay roll		$10,777 87	
Allowance on artificial stone sidewalks: —			
Geo. H. Lowe	$92 73		
Simpson Bros. Corporation	462 57		
Warren Bros. Co.	71 82		
		627 12	
Artificial stone sidewalks (new): —			
Simpson Bros. Corporation		499 28	
Bricks, Parry Brick Co.		3,002 87	
Freight, Boston & Maine Railroad		449 04	
Hardware, tools, etc.: —			
Brock Bros.	$5 70		
E. T. Bynner	47 29		
Colonial Supply Co.	48 75		
Dodge-Haley Co.	97 45		
Geo W. Gale Lumber Co.	36 05		
Bruce R Ware & Co.	14 10		
Wm H. Wood & Co.	12 55		
Sundry persons	3 16		
		265 05	
Hay, grain and straw: —			
J. Cushing & Co.		97 68	
Amounts carried forward		$15,718 91	$30,000 00

Public Highways and Sanitation — Continued.

PAVING, EDGESTONES AND SIDEWALKS — Concluded.

Amounts brought forward		$15,718 91	$30,000 00
For lighting: —			
E. T. Bynner	$3 25		
F. X. Massé	48		
Thomas R. Nevins	18 70		
Pill Bros.	43 00		
Standard Oil Co.	33 75		
		99 18	
Lumber, Geo. W. Gale Lumber Co.		11 59	
Printing, Cambridge Chronicle		20 00	
Stone: —			
Edgestone, S. & R. J. Lombard	$7,736 06		
Gutter stone: —			
Michael Flynn $31 27			
Jeremiah Hagerty 31 26			
S. & R. J. Lombard 4,894 67			
	4,957 20		
Paving blocks, S. & R. J. Lombard	58 40		
		12,751 66	
Teaming: —			
Sundry persons, as per pay-roll		1,395 01	
Total			29,996 35
Surplus of appropriation relinquished to General Treasury			$3 65

SIDEWALKS. (4.4)

SIDEWALK REPAIRS.

Appropriation			$1,500 00
EXPENDED.			
For labor, as per pay rolls		$1,207 85	
Artificial stone sidewalks and repairs: —			
Warren Bros. Co.		22 00	
Bricks, Parry Brick Co.		191 75	
Gravel and freight, Boston & Maine R.R.		59 41	
Hardware, tools, etc., Brock Bros.		3 00	
Total			1,484 01
Surplus of appropriation relinquished to General Treasury			$15 99

Public Highways and Sanitation — Continued.

STREET LIGHTING. (45)

SALARIES.

Appropriation		$1,000 00
EXPENDED.		
For salary of :—		
Superintendent, T. C. O'Hearn	$1,000 00	
Total		1,000 00

GENERAL EXPENSES.

Appropriation			$77,500 00
EXPENDED.			
For car tickets :—			
Boston Elevated Railway Co.		$25 00	
Carriage repairs :—			
T. H. Kneeland		36 05	
Changing location of lamp :—			
Cambridge Electric Light Co.		4 20	
Harness and repairs and horse clothing :—			
Harvard Harness Store	$3 60		
Hugh McCaffrey	3 00		
Thomas McMahon	3 25		
		9 85	
Horse board and use of buggy :—			
John J. Corkery		276 00	
Horseshoeing :—			
Wm. Balmer		26 00	
Lighting :—			
Cambridge Electric Light Co. :—			
Arc $54,853 14			
Incandescent 13,309 95			
	$68,163 09		
Welsbach Street Lighting Co.	8,897 49		
		77,060 58	
Mercury :—			
J. F. Rooney		51 68	
Resetting lamp posts :—			
Cambridge Gas Light Co.		22 00	
Stationery, printing, etc. :—			
J. A. Cummings Printing Co.	$6 22		
J. Frank Facey	4 50		
Chas. H. Thurston	75		
		11 47	
Amounts carried forward		$77,522 83	$77,500 00

Public Highways and Sanitation — Continued.

STREET LIGHTING, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$77,522 83	$77,500 00
For teaming, setting and connecting lamp posts :—			
Cambridge Gas Light Co. . .		37 89	
Telephone service		17 05	
Transfer :—			
Supplies, Postage and Stationery Account		1 00	
Total			77,578 77
Excess of expenditures over appropriation . . .			$78 77
Additional appropriation			100 00
Balance relinquished to General Treasury . . .			$21 23

STREET CLEANING. (4.6)

Appropriation			$25,000 00
EXPENDED.			
For labor, as per pay-roll . . .		$24,993 04	
Hardware, tools, etc. :—			
Brock Bros.	$9 60		
G. W. Burditt	15 00		
Colonial Supply Co. . . .	14 70		
E. T. Bynner	109 00		
		148 30	
Harness and repairs, Hugh McCaffrey		6 75	
Hay, grain and straw :—			
P. A. Clarke & Co.	$30 06		
J. Cushing & Co.	783 56		
Enos & Holmes	52 10		
E. R. Luke & Co.	137 53		
		1,003 25	
Machine sweeper repairs :—			
American Road Roller Co. . .	$6 60		
Barbour-Stockwell Co . . .	29 85		
Brock Bros.	30		
Chas. A. Claflin & Co. . . .	6 03		
Campbell Iron Works . . .	1 40		
Dodge-Haley Co.	16 75		
Edson Manufacturing Co. . .	18 90		
		79 83	
Push carts and cans :—			
American Road Roller Co. . .		18 00	
Refilling machine sweeper brooms :—			
Harold L. Bond Co. . . .	$30 00		
Boston Broom Co. . . .	210 00		
		240 00	
Amounts carried forward . . .		$26,489 17	$25,000 00

Public Highways and Sanitation — Continued.

STREET CLEANING — Concluded

Amounts brought forward		$26,489 17	$25,000 00
For rubbish barrels: —			
American Stave and Cooperage Co.		125 00	
Teaming: —			
Sundry persons, as per pay-roll		4,383 75	
Total			30,997 92
Excess of expenditures over appropriation			$5,997 92
Additional appropriation			6,000 00
Balance relinquished to General Treasury			$2 08

SNOW REMOVAL. (4.7)

Appropriation			$16,500 00
EXPENDED.			
For labor, as per pay roll		$15,604 57	
Hardware, tools, etc.: —			
Brock Bros.	$14 00		
E. T. Bynner	35 00		
Colonial Supply Co.	110 25		
Dodge-Haley Co.	68 80		
		228 05	
Hay, grain, etc.: —			
J. Cushing & Co.	$321 24		
E. R. Luke & Co.	178 09		
		499 33	
Salt, Eastern Salt Co.		33 75	
Snow plow and freight, A. B. Black		67 90	
Teaming, sundry persons		64 50	
Total			16,498 10
Surplus of appropriation relinquished to General Treasury			$1 90

STREET SPRINKLING. (4.8)

Appropriation			$28,000 00
DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.			
For collections	$338 01		
EXPENDED.			
For labor as per pay roll		$2,713 27	
Bicycle repairs: —			
J. L. Moseley	$2 75		
Geo. F. Schwartz Co.	5 50		
		8 25	
Amounts carried forward		$2,721 52	$28,000 00

Public Highways and Sanitation — Continued.

STREET SPRINKLING — Concluded.

Amounts brought forward		$2,721 52	$28,000 00
For fuel:—			
Metropolitan Coal Co.		16 00	
Harness and repairs:—			
James Curry	$7 70		
F. Ivers & Son	3 51		
		11 21	
Hardware, tools, etc.:—			
E. T. Bynner		1 10	
Sprinkling streets:—			
Sundry persons as per pay roll		23,742 15	
Standpipe and repairs:—			
Moynahan & Co.		2 50	
Transfer:—			
Standpipe repairs, Water Dept.		120 78	
Watering cart repairs:—			
American Stave & Cooperage	$68 00		
Babcock Varnish Co.	70 00		
Boston Woven Hose & Rubber Co.	50 14		
E. T. Bynner	229 06		
W. J. Dardis	1 50		
Dodge, Haley & Co.	289 92		
Duff Spring Co.	261 40		
Walter W. Field	4 86		
Geo. W. Gale Lumber Co.	27 72		
Ira G. Hersey	7 23		
Moynahan & Co.	18 75		
Murphy Varnish Co.	75 00		
J. L. & H. K. Potter	27 60		
Chas. G. Reid Wheel Co.	62 30		
Wadsworth, Howland & Co.	101 52		
Henry J. Winde	89 74		
		1,384 74	
Total			28,000 00

REFUSE COLLECTION AND DISPOSAL. (4.9)

HOUSE OFFAL, LABOR.

Appropriation			$27,500 00
	EXPENDED.		
For labor, as per pay roll		$26,936 62	
Total			26,936 62
Surplus of appropriation			$563 38
Transfer from this account to General Expenses		$200 00	
Transfer from this account to City Home, General Expenses		250 00	
			450 00
Balance relinquished to General Treasury			$113 38

Public Highways and Sanitation — Continued.

HOUSE OFFAL — Continued.

GENERAL EXPENSES

Appropriation		$6,500 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For sale of offal	$11,326 61	

EXPENDED.

For brick, New England Brick Co.		$5 25	
Carpentry, C. H. Callahan & Son		4 65	
Drain work, Samuel McCulloch		131 50	
Electrical work: —			
Hussey & Maguire	$8 05		
R. W. Le Barron	6 31		
		14 36	
Extinguisher: —			
Badger Fire Extinguisher Co.		8 00	
Hardware, tools and repairs and supplies: —			
Jos. Breck & Sons, Corporation	$27 63		
Brock Bros.	14 52		
E. T. Bynner	67 25		
A. Lubbé	41 26		
F. X. Massé	33 43		
Daniel J Sullivan	6 60		
G. F. Whitney & Co.	13 50		
Whittier Woodenware Co.	19 37		
		223 56	
Harness and repairs, and horse clothing: —			
M. Cavanagh	$72 25		
Thomas J Fox	98 60		
F. X. Massé	5 80		
Sartwell, Heinold & Humphrey	61 95		
		238 60	
Hay, grain, etc.: —			
Clark Bros.	$595 60		
J. Cushing & Co.	2,976 48		
		3,572 08	
Horses, Henry S. Harris' Sons		400 00	
Horse clipping, Fred D. Norton		2 50	
Horseshoeing: —			
Wm. Balmer	$17 00		
E. P. Griffin	397 75		
John A Peters	203 60		
		618 35	
Lighting: —			
Cambridge Electric Light Co.		34 36	
Amounts carried forward		$5,253 21	$6,500 00

Public Highways and Sanitation — Continued.

HOUSE OFFAL, GENERAL EXPENSES — Concluded

Amounts brought forward		$5,253 21	$6,500 00
For lumber and cement:—			
Geo. W. Gale Lumber Co.	$267 09		
Wm. H Wood & Co.	175 00		
		442 09	
Paints, oils, etc.:—			
E. T. Bynner	$11 24		
Carpenter-Morton Co.	112 54		
		123 78	
Painting, J. T. Lane		5 00	
Plumbing, T. W Good		49 98	
Sulpho Napthol, Sulpho Napthol Co.		3 00	
Transfer:—			
Stove, City Building Account		10 00	
Ventilator repairs, T. W. Good		7 35	
Wagon Repairs:—			
T. H. Kneeland	455 99		
A. S. Lohnes & Co.	337 20		
		793 19	
Window blinds, A. W. Hastings & Co.		10 78	
Total			6,698 38
Excess of expenditures over appropriation			$198 38
Transfer to this account from House Offal, Labor			200 00
Balance relinquished to General Treasury			$1 62

COLLECTION OF ASHES.

Appropriation			$30,000 00
EXPENDED.			
For labor as per pay roll		$28,917 21	
Bicycle repairs:—			
J L Moseley Estate	$2 25		
E. H. McDuffee	9 75		
Peter Powell	4 25		
Geo. F. Schwartz Co.	8 00		
		24 25	
Hardware, tools, etc.:—			
Brock Bros.	$2 64		
Campbell Iron Works	4 88		
John T. Scully & Bro.	34 56		
		42 08	
Harness and repairs, etc.:—			
Nelson T. Cabana	$36 50		
M. Cavanagh	16 05		
John H Fuller	65 00		
Hugh McCaffrey	64 80		
		182 35	
Amounts carried forward		$29,165 89	$30,000 00

Public Highways and Sanitation — Continued.

COLLECTION OF ASHES — Concluded.

Amounts brought forward . .		$29,165 89	$30,000 00
For hay, grain and straw: —			
P. A. Clarke & Co.	$323 27		
J. Cushing & Co.	1,697 03		
Robert Fawcett	328 25		
E. R. Luke & Co.	779 93		
		3,128 48	
Horseshoeing: —			
Wm. Balmer	$6 75		
W. F. Garrett	75		
		7 50	
Horseshoeing stock, Dodge-Haley Co.		9 00	
Painters' supplies, E. T. Bynner .		34 10	
Teaming: —			
Sundry persons as per pay roll		10 00	
Wagon repairs: —			
Barbour-Stockwell Co. . . .	$25 95		
E. T. Bynner	60		
Dodge-Haley Co.	57 89		
Duff Spring Co.	4 50		
Geo. W. Gale Lumber Co. . .	15 00		
Ira G. Hersey	28 71		
T. H Kneeland	2 20		
Wm. H. Wood & Co. . . .	9 41		
		144 26	
Total			32,499 23
Excess of expenditures over appropriation . .			$2,499 23
Transfer to this account from Boston Bridges, Salaries		$800 00	
Transfer to this account from Boston Bridges, General		700 00	
			1,500 00
			$999 23
Additional appropriation			1,000 00
Balance relinquished to General Treasury . . .			77

SEWERS AND SEWAGE DISPOSAL. (4.10)

SEWER DEPARTMENT, CONSTRUCTION GENERAL.

Appropriation			$20,000 00
EXPENDED.			
For general expenses: —			
Advertising: —			
Cambridge Chronicle .	$16 25		
Boston Herald Co. . .	8 75		
		$25 00	
Bricks, New England Brick Co. .		38 93	
Castings, Osgood & Witherly . .		16 16	
Gravel, Wm. B Mullen . . .		252 00	
Amounts carried forward . . .		$332 09	$20,000 00

Public Highways and Sanitation — Continued.

SEWER DEPARTMENT, CONSTRUCTION GENERAL — Continued.

Amounts brought forward . .	$332 09		$20,000 00
For hardware, tools and repairs :—			
James Maitland	25 16		
Iron work, H. J. Shaw . . .	60 15		
Teaming	62 00		
		$479 40	
New catch-basins :—			
Labor as per pay-roll . . .	$753 48		
Bricks, New England Brick Co. .	246 51		
Castings, Osgood & Witherly .	207 45		
Cement, David W. Lewis Co. .	48 72		
Lumber, Geo. W Gale Lumber Co.	58 40		
Oil, Standard Oil Co. . . .	8 25		
Pipe :—			
Curtis & Pope Lumber Co. $28 35			
Eastern Clay Goods Co. 39 07			
	67 42		
Sharpening tools, James Maitland .	4 84		
Sand :—			
Thos. O'Hara . . $31 70			
David O'Mara . . 112 50			
	144 20		
Teaming, sundry persons . .	6 50		
Traps and hooks :—			
Boston Double Catch-Basin, Sewer & House-Trap Co. . . .	117 60		
		1,663 37	
Sixth and Potter Streets System :—			
Labor as per pay-roll . . .	$2,490 91		
Bricks, New England Brick Co .	131 89		
Castings, Barbour-Stockwell Co. .	16 50		
Cement, Windsor Cement Co. .	23 40		
Gravel :—			
Wm. B. Mullen . . $346 00			
David O'Mara . . 4 00			
	350 00		
Hardware, tools and supplies :—			
E T. Bynner	26 22		
Lumber :—			
Geo. W. Gale Lumber Co. . .	98 89		
Oil, Standard Oil Co. . . .	12 65		
Pipe :—			
Curtis & Pope Lumber Co $515 00			
David W. Lewis Co. . 124 35			
	639 35		
Teaming, sundry persons . .	349 20		
		4,139 01	
Marie Avenue System :—			
Labor, as per pay-roll . .	$486 60		
Bricks, New England Brick Co. .	12 98		
Gravel, Wm. B. Mullen . . .	63 40		
Amounts carried forward . . .	$562 98	$6,281 78	$20,000 00

Public Highways and Sanitation — Continued.

SEWER DEPARTMENT, CONSTRUCTION GENERAL—Continued.

Amounts brought forward . .	$562 98	$6,281 78	$20,000 00
For pipe, etc. :—			
Eastern Clay Goods Co. $83 29			
David W. Lewis Co. . 79 25			
	162 54		
Teaming, sundry persons . .	17 50		
		743 02	
Binney Street System :—			
Labor, as per pay-roll . .	$5,790 56		
Bricks, New England Brick Co. .	622 79		
Car service :—			
N. Y. Central & Hudson R. R. Co.	6 00		
Cement, David W. Lewis Co. .	446 90		
Gravel, Wm. B. Mullen . . .	154 90		
Hardware, tools and repairs :—			
E. T. Bynner . . $69 63			
James Maitland . . 13 33			
H. J. Shaw . . . 9 45			
Daniel J. Sullivan . 7 50			
	99 91		
Lumber and mill work :—			
Geo. W. Gale Lumber Co. . . . $416 71			
J. H. Gerlach Co. . 14 22			
H A. Scranton . . 12 65			
	443 58		
Machine work, H. J. Shaw . .	5 05		
Oil, Standard Oil Co. . . .	9 00		
Pipe, Eastern Clay Goods Co. .	5 17		
Teaming, sundry persons . .	20 58		
Use of engines, Geo. E. Worthen .	10 00		
Transfer, Repairs, Water Dept. .	6 00		
		7,620 44	
Athenæum Street System :—			
Labor, as per pay roll . . .	$1,376 05		
Brick, New England Brick Co. .	25 95		
Cement, David W. Lewis Co. . .	9 48		
Lumber, Geo. W. Gale Lumber Co.	92 27		
Piles, John T. Scully & Bro. . .	57 82		
Pipe and fittings :—			
Curtis & Pope Lumber Co. . .	110 58		
Teaming, Thos. O'Hara . . .	5 00		
Use of engine, Geo. E. Worthen .	24 00		
		1,701 15	
Holyoke Street System :—			
Labor, as per pay roll . . .	$637 90		
Hardware, tools and repairs, and supplies :—			
E. T. Bynner	2 90		
Pipe and fittings :—			
Curtis & Pope Lumber Co. $62 87			
Eastern Clay Goods Co. 2 69			
	65 56		
Teaming, sundry persons . .	8 75		
		715 11	
Amounts carried forward . . .		$17,061 50	$20,000 00

Public Highways and Sanitation — Continued.

SEWER DEPARTMENT, CONSTRUCTION GENERAL — Concluded.

Amounts brought forward . .		$17,061 50	$20,000 00
For Stiles Street System: —			
Labor, as per pay roll . .	$971 61		
Pipe and fittings: —			
Curtis & Pope Lumber Co. . .	124 80		
Teaming, sundry persons . .	82 50		
		1,178 91	
Hawthorne Avenue System: —			
Labor, as per pay roll . .	$846 57		
Bricks, New England Brick Co. .	38 93		
Pipe and fittings: —			
Eastern Clay Goods Co. . .	242 60		
Teaming, sundry persons . .	35 00		
		1,163 10	
Douglass Street System: —			
Labor, as per pay roll . .	$162 25		
Pipe and fittings: —			
Eastern Clay Goods Co. . .	60 86		
		223 11	
Valentine Street System: —			
Labor, as per pay roll . .		213 50	
Total . .			19,840 12
Surplus of appropriation relinquished to General Treasury			$159 88

SEWERS AND SEWAGE DISPOSAL. (4.10)

SEWER DEPARTMENT, CONSTRUCTION, IMPROVED SEWERAGE.

Appropriation			$61,296 16
EXPENDED.			
For execution of court: —			
Michael Healy		$550 00	
General Account: —			
Castings, Osgood & Witherly .	$161 13		
Iron work, H. J. Shaw . . .	7 00		
		168 13	
Cambridge Street System: —			
Labor as per pay-roll . . .	$884 87		
Castings, Osgood & Witherly .	57 03		
Gravel, Wm. B. Mullen . . .	437 50		
Hardware, tools, etc, E. T. Bynner	2 92		
Pipe and fittings, David W. Lewis Co.	277 33		
Rental of trench machine: —			
Carson Trench Machine Co. .	170 00		
Amounts carried forward . . .	$1,829 65	$718 13	$61,296 16

Public Highways and Sanitation— Continued.

SEWER DEPARTMENT, CONSTRUCTION, IMPROVED SEWERAGE — Continued.

Amounts brought forward . .	$1,829 65	$718 13	$61,296 16
For teaming, sundry persons . .	115 63		
Use of engines and pumps :—			
Geo. E. Worthen . . .	34 00		
Transfer, Stone, Street Dept. .	17 12		
		1,996 40	
Franklin Street System :—			
Bricks, New England Brick Co. .	$51 90		
Fuel, Consumers' Coal Co . .	8 71		
Repairing drain, Samuel McCulloch	7 35		
		67 96	
Holden Street System :—			
Labor as per pay-roll . . .	$14,583 53		
Bricks, New England Brick Co. .	549 27		
Boots, Robert Josselyn . . .	57 24		
Castings, Osgood & Witherly .	124 23		
Cement, David W. Lewis Co. .	912 18		
Fuel, Consumers' Coal Co. . .	38 52		
Gravel, sand, etc , Wm. B. Mullen	903 28		
Hardware, tools and repairs, and supplies :—			
E T. Bynner . . $272 11			
James Maitland . . 26 89			
Daniel J. Sullivan . 8 55			
	307 55		
Lumber and mill work :—			
J. H. Gerlach Co.. . $268 35			
Geo. W. Gale Lumber Co. 384 52			
H. A. Scranton . . 21 15			
	674 02		
Oil :—			
Alden Speare's Sons Co. $5 25			
Standard Oil Co. . 26 55			
	31 80		
Pipe and fittings :—			
Curtis & Pope Lumber Co. $897 19			
Eastern Clay Goods Co. 59 26			
	956 45		
Teaming, sundry persons . .	251 62		
Use of engines and pumps :—			
Geo. E. Worthen . . .	197 50		
Transfer :—			
Stock and labor, Water Dept. .	15 54		
		19,602 73	
Washington Street System :—			
Labor as per pay-roll . . .	$22,646 26		
Boots, Robert Josselyn . . .	178 74		
Bricks, New England Brick Co. .	882 29		
Car service, N. Y. C. & H. R. R. R. Co.	6 00		
Castings, Osgood & Witherly .	106 82		
Amounts carried forward . . .	$23,820 11	$22,385 22	$61,296 16

Public Highways and Sanitation — Continued.

SEWER DEPARTMENT, CONSTRUCTION, IMPROVED SEWERAGE — Concluded.

Amounts brought forward . .	$23,820 11	$22,385 22	$61,296 16
For cement :—			
David W. Lewis Co. . $706 83			
Windsor Cement Co. . 170 00			
	876 83		
Fuel, Consumers' Coal Co. . .	214 07		
Gravel, Wm. B. Mullen . . .	504 94		
Hardware, tools and repairs, and supplies :—			
Brock Bros. . . $22 00			
E. T. Bynner . . 247 84			
Harrington, King & Co. 36 89			
Chas James . . 12 25			
James Maitland . . 95 05			
Daniel J. Sullivan . 41 40			
	455 43		
Hose, belting, etc. :—			
Boston Woven Hose & Rubber Co.	22 74		
Inspecting bulkhead :—			
Thos. Leahy & Son . . .	10 00		
Iron work, H. J. Shaw . . .	130 04		
Lumber and mill work :—			
J. H Gerlach Co. . $65 06			
Geo. W. Gale Lumber Co. 2,343 98			
H. A Scranton . . 9 10			
Wm. H. Wood & Co. . 230 07			
	2,648 21		
Oil :—			
Alden Speare's Sons Co. $5 25			
Standard Oil Co. . . 50 52			
	55 77		
Pipe and fittings :—			
Curtis & Pope Lumber Co. . . . $1,990 70			
Eastern Clay Goods Co. 322 29			
David W. Lewis Co. . 468 46			
	2,781 45		
Rent of lot, Mrs. C. Schneider .	5 00		
Repairing drain :—			
Mrs Anna E Robinson . .	9 00		
Sand, Thomas O'Hara . . .	31 00		
Teaming :—			
Sundry persons, as per pay-rolls .	1,079 22		
Transfer :—			
Stock and labor, Water Dep't .	98 41		
Use of engines and pumps :—			
Geo. E. Worthen . . .	353 30		
		33,095 52	
Total			55,480 74
Surplus of appropriation relinquished to General Treasury			$5,815 42

Public Highways and Sanitation.— Continued.

SEWERS AND SEWAGE DISPOSAL.

SEWER DEPARTMENT, CONSTRUCTION, SEPARATE SYSTEM OF DRAINAGE.

Appropriation		$30,448 74

EXPENDED.

For Cambridge Street District:—			
Labor, as per pay-roll		$17,083 19	
Bricks, New England Brick Co.		447 60	
Car service:—			
N. Y. Central & Hudson River R. R Co		3 00	
Castings, Osgood & Witherly		72 31	
Cement:—			
David W. Lewis Co.	$362 22		
Windsor Cement Co.	170 00		
		532 22	
Fuel, Consumers' Coal Co.		85 82	
Gravel, Wm. B. Mullen		751 71	
Hardware, tools and repairs, and supplies:—			
Brock Bros.	$35 51		
E. T. Bynner	201 38		
Chas. James	6 00		
James Maitland	82 78		
Daniel J. Sullivan	22 25		
		347 92	
Iron work, H. J. Shaw		15 40	
Lumber and mill work:—			
J. H. Gerlach Co.	$65 06		
Geo. W. Gale Lumber Co.	518 18		
H. A. Scranton	17 80		
		601 04	
Oil:—			
Alden Speare's Sons Co.	$10 90		
Standard Oil Co.	30 50		
		41 40	
Pipe and fittings:—			
Curtis & Pope Lumber Co.	$690 82		
Eastern Clay Goods Co.	612 27		
		1,303 09	
Rental of trench machine and repairs:—			
Carson Trench Machine Co.		236 95	
Teaming:—			
Sundry persons as per pay-rolls		1,161 88	
Track work on account of sewer:—			
Boston Elevated Railway Co.		234 68	
Transfers:—			
Cracked stone, Street Dept.	$34 86		
Stock and labor, Water Dept.	30 29		
		65 15	
Amounts carried forward		$22,983 36	$30,448 74

Public Highways and Sanitation — Continued.

SEWER DEPARTMENT, CONSTRUCTION, SEPARATE SYSTEM OF DRAINAGE — Concluded.

Amounts brought forward . .	$22,983 36	$30,448 74
For use of engine and pumps :—		
Geo. E Worthen	169 57	
Wire, Harrington, King & Co. .	42 39	
Total		23,195 32
Surplus of appropriation relinquished to General Treasury		$7,253 42

SEWERS AND SEWAGE DISPOSAL.

SEWER DEPARTMENT, MAINTENANCE.

Appropriation	$18,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For cement	$6 50
Clay	19 95
Fertilizer . . .	1 00
Sale of old material .	97 12
Sale of old wagon . .	5 00
	$129 57

EXPENDED.

For catch-basin repairs :—				
Labor, as per pay-roll . . .		$635 04		
Bricks, New England Brick Co .		95 15		
Castings, Osgood & Witherly .		78 77		
Cement, D. W. Lewis Co. . .		61 95		
Gravel, Wm. B. Mullen . . .		9 11		
Pipe and fittings :—				
Eastern Clay Goods Co	$1 36			
David W. Lewis Co. .	23 42			
		24 78		
Teaming, P. Biggin . . .		75		
Traps and hooks :—				
Boston Double Catch-Basin, Sewer and House Trap Co. .		71 40		
			$976 95	
Cleaning catch-basins :—				
Labor, as per pay-roll . . .		$2,660 95		
John Horigan		3,428 74		
			6,089 69	
Cleaning and repairing gates :—				
Labor, as per pay-roll . . .			1,262 31	
Cleaning sumps :—				
Labor, as per pay-roll . . .			121 63	
Amounts carried forward . . .			$8,450 58	$18,000 00

Public Highways and Sanitation — Continued.

SEWER DEPARTMENT, MAINTENANCE — Continued.

Amounts brought forward . .		$8,450 58	$18,000 00
For cleaning and flushing sewers :—			
Labor, as per pay-roll . . .	$444 21		
Hose, couplings, etc., Edson Manufacturing Co.	35 99		
		480 20	
Manhole repairs :—			
Labor, as per pay-roll . . .		88 72	
Sewer repairs :—			
Labor, as per pay-roll . . .	$314 73		
Bricks, New England Brick Co. .	25 95		
Cement, D. W. Lewis Co. . .	75 39		
Damage to estate, John T. Joyce .	10 40		
Iron work, H. J. Shaw . .	130 30		
Labor, repairing drains, etc. :—			
Margaret Hallisey . $10 50			
John Kelleher . . 11 25			
James Maloney . . 1 00			
Samuel McCulloch . 35 78			
Henry T. Moulton 19 85			
Moynahan & Co. . . 3 00			
Herbert L. Rose . . 13 53			
Thos. C. Sweeney & Co. 12 95			
	107 86		
Pipe, David W. Lewis Co. . .	24 08		
		688 71	
Office expenses :—			
Salary of clerk, Mary E. Rowen .	$395 00		
Stationery, printing, etc. :—			
Cambridge Chronicle . $11 50			
Cotton & Gould . . 12 25			
	23 75		
Transfers :—			
Supplies, Postage and Stationery Account	17 70		
		436 45	
General expenses : —			
Labor, as per pay roll . . .	$1,459 29		
Car tickets :—			
Boston Elevated Railway Co. .	90 00		
Expressage :—			
Sawin's Express . . $2 75			
Savage & Son . . 1 40			
	4 15		
Fitting irons in manhole covers : —			
Austin Ford & Son . . .	9 60		
Hardware, tools and repairs, and supplies : —			
E. T. Bynner . . $95 17			
Greene & Co. . . 75			
James Maitland . . 25 43			
Morss & Whyte Co. . 4 58			
	125 93		
Amounts carried forward . . .	$1,688 97	$10,144 66	$18,000 00

Public Highways and Sanitation — Continued.

SEWER DEPARTMENT, MAINTENANCE — Continued.

Amounts brought forward . .	$1,688 97	$10,144 66	$18,000 00
For hose and couplings: —			
Boston Woven Hose & Rubber Co.	3 54		
Iron work, H. J. Shaw . . .	3 00		
Ladder, C. W. H. Moulton & Co. .	4 00		
Lumber and mill work: —			
Geo. W. Gale Lumber Co. $18 81			
H A Scranton . . 15 80			
Wm. H. Wood & Co. . 102 15			
——	136 76		
Repairing pumps: —			
Edson Manufacturing Co. . .	33 00		
Roof repairs, Wm. Gordon . .	10 84		
Sand, Thos. O'Hara . . .	30 00		
Sandals, Wm. H. Roberts . .	10 20		
Services of superintendent: —			
T L Pike	2,000 00		
Sewer register and repairs: —			
Frank R Kenney . . .	24 50		
Teaming, sundry persons . .	12 50		
Telephone service	40 40		
Transfers: —			
Removing nests of brown tail moth, Park Dept. . . $1 00			
Stock and labor, Water Dept. . . . 24 81			
——	25 81		
Use of horse, L. H. Brockway .	17 00		
Wagon repairs: —			
F. Ivers & Son . . $25 75			
Chas. Waugh & Co. . 718 34			
——	744 09		
	——	4,784 61	
Stable account: —			
Labor as per pay roll . . .	1,169 37		
Bricks, Boston Elevated Railway Co.	38 70		
Fuel, Consumers' Coal Co. . .	33 80		
Hardware, tools and repairs, and supplies: —			
E. T. Bynner . . $19 49			
Pill Bros. . . . 21 25			
Daniel J. Sullivan . 4 30			
——	45 04		
Harness and repairs and horse clothing: —			
H C. Boardman . . $1 50			
M Cavanagh . . 28 85			
L. C. Chase & Co. . 9 75			
Wm. H. Roberts . . 5 55			
H. M. Sawyer & Son . 5 62			
——	51 27		
Amounts carried forward . . .	$1,338 18	$14,929 27	$18,000 00

Public Highways and Sanitation — Continued.

SEWER DEPARTMENT, MAINTENANCE — Concluded.

Amounts brought forward . .	$1,338 18	$14,929 27	$18,000 00
For hay, grain and straw: —			
E. R Luke & Co. . $577 86			
L. G. Stone & Co. . 9 50			
	587 36		
Heating apparatus, Greene & Co. .	13 90		
Horse clipping: —			
Harvard Horse Clipping Co. .	6 00		
Horseshoeing: —			
W. F. Garrett . . $66 75			
John F. Gurry . . 94 50			
	161 25		
Lighting, Camb. Electric Light Co.	21 79		
Lumber and mill work: —			
Geo. W. Gale Lumber Co. $458 99			
J. H Gerlach Co . . 3 95			
H. A. Scranton . . 18 40			
Wm. H. Wood & Co. . 11 64			
	492 98		
Sundries	5 11		
Teaming, J F. Black . . .	5 00		
Window frames, J. H. Gerlach Co.	91 75		
		2,723 32	
Total			17,652 59
Surplus of appropriation relinquished to General Treasury			$347 41

BRIDGES. (4.12)

BOSTON BRIDGES.

SALARIES AND LABOR.

Appropriation			$10,667 00
EXPENDED.			
For salaries of: —			
Bridge Commissioner and Harbor Master: —			
Geo. M Clukas		$700 00	
Clerk, Chas S. Parsons . .		250 00	
Draw-tenders and assistants at: —			
Boylston St. Bridge (North Harvard)	$514 00		
Brookline St Bridge . . .	670 00		
Craigie Bridge	1,264 75		
Harvard Bridge	1,747 12		
Amounts carried forward . . .	$4,195 87	$950 00	$10,667 00

Public Highways and Sanitation — Continued.

BOSTON BRIDGES, SALARIES AND LABOR — Concluded.

Amounts brought forward . .	$4,195 87	$950 00	$10,667 00
For Prison Point Bridge . . .	1,516 00		
West Boston Bridge . . .	1,815 57		
Western Av. and River St. Bridge	1,396 34		
		8,923 78	
Total			9,873 78
Surplus of appropriation			$793 22
Transfer to this account from General Expenses .			6 78
			$800 00
Transfer from this account to Street Department, Collection of Ashes			800 00

GENERAL EXPENSES.

Appropriation	$11,000 00

Department Receipts Carried to General Treasury.

For rent	$36 33
Repairs	16 67
Sale of old wood . .	60 01
Sale of old buildings .	87 50
Sale of old materials .	175 32
Wharfage . . .	57 50
	$433 33

EXPENDED.

For advertising: —			
Boston Evening Record . . .	$3 75		
Boston Herald Co.	3 00		
Boston Transcript Co. . . .	4 25		
Boston Traveler Co. . . .	4 12		
Cambridge Chronicle . . .	4 13		
Cambridge Tribune . . .	3 25		
Globe Newspaper Co. . . .	3 00		
Hearst's Boston American . .	4 34		
Journal Newspaper Co. . . .	3 82		
Post Publishing Co. . . .	3 87		
		$37 53	
Car tickets: —			
Boston Elevated Railway Co. .		10 00	
Office furniture: —			
W. B. Badger & Co. . . .	$43 00		
Globe-Wernicke Co. . . .	14 25		
		57 25	
Amounts carried forward . .		$104 78	$11,000 00

Public Highways and Sanitation — Continued.

BOSTON BRIDGES, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$104 78	$11,000 00
For stationery, printing, etc: —			
City of Boston, Printing Dept. .	72 76		
J. A. Cummings Printing Co. .	2 66		
J. L. Fairbanks & Co. . . .	16 87		
	92 29		
Typewriting, A. R. Andrews . .		18 80	
Brookline Street Bridge: —			
Hardware, E. T. Bynner . .	$8 17		
Lighting: —			
Boston Consolidated Gas Co. . .	$42 70		
Brookline Gas Light Co.	74 20		
Camb. Elec. Light Co.	44 26		
	161 16		
Lumber: —			
Geo W. Gale Lumber Co.	$139 01		
Wm. H. Wood & Co. .	12 70		
	151 71		
Repairing bridge: —			
John T. Scully & Bro. .	$60 74		
H. J. Shaw . .	30		
	61 04		
		382 08	
Craigie Bridge: —			
Cleaning bridge: —			
Austin Ford & Son .	$105 00		
John T. Scully & Bro. .	4 50		
T. Sullivan . . .	3 60		
	$113 10		
Damages, Frank Connelly . .	25 00		
Desk, D. J. Sullivan . . .	1 87		
Fuel: —			
Mass. Wharf Coal Co.	$13 92		
Metropolitan Coal Co.	105 40		
	119 32		
Hardware, L. A. Stingel . .	12 39		
Lighting: —			
Camb Elec. Light Co.	$162 63		
Edison Elec. Illum. Co.	41 82		
	204 45		
Lumber, E. D. Sawyer Lumber Co.	29 87		
Oil, Alden Speare's Sons Co. . .	2 10		
Plumbing, J. W Anderson & Co. .	25 33		
Repairing service pipe: —			
City of Boston	5 47		
Repairing bridge: —			
John T Scully & Bro. .	$47 31		
H. J Shaw . .	19 51		
	66 82		
Salt, Eastern Salt Co. . . .	3 00		
Snow plow, A. B. Black . .	33 95		
Water, Union Wharf Water Boats	4 00		
		646 67	
Amounts carried forward . . .		$1,244 62	$11,000 00

Public Highways and Sanitation — Continued.

BOSTON BRIDGES, GENERAL EXPENSES — Continued.

Amounts brought forward . .			$1,244 62	$11,000 00
For Harvard Bridge: —				
Advertising: —				
Cambridge Sentinel Pub'g Co. .		$3 25		
Cleaning bridge, Thomas O'Hara .		77 87		
Current to draw: —				
Cambridge Electric Light Co. .		120 00		
Desk, D. J. Sullivan . . .		1 88		
Fuel: —				
Mass. Wharf Coal Co.	$16 80			
Metropolitan Coal Co.	6 40			
		23 20		
Hardware and supplies: —				
E. T. Bynner . .	$7 17			
Dexter Bros. Co. .	8 72			
P. J. Dinn & Co . .	8 15			
Dodge-Haley Co. .	34 50			
		58 54		
Ice, The Boston Ice Co. . . .		3 00		
Inspecting and repairing lighting apparatus: —				
General Electric Co. . .		76 02		
Lighting: —				
Camb. Elec. Light Co.	$660 00			
Edison Elec. Illum. Co.	510 00			
		1,170 00		
Lumber and cement: —				
Geo. W Gale Lumber Co.	$70 19			
Geo. H. Jennings .	569 65			
Wm. H. Wood & Co. .	1 20			
		641 04		
Oil, lubricants, etc., Geo. W. Waite Co.		10 03		
Repairing bridge: —				
John T Scully & Bro. . . .		76 37		
Sand and spreading: —				
John T. Scully & Bro.	77 00			
John T. Scully Foundation & Trans. Co. .	24 50			
		101 50		
			2,362 70	
North Harvard Bridge (Boylston St.): —				
Fuel, Metropolitan Coal Co. . .		$3 45		
Hardware, E. T. Bynner . .		20 37		
Lumber: —				
Geo W. Gale Lumber Co.	$84 80			
Geo. McQuesten Co. .	6 60			
		91 40		
Repairing bridge: —				
John T Scully & Bro.	$50 10			
John T. Scully Foundation & Trans. Co .	35 71			
H. J. Shaw . . .	2 44			
		88 25		
			203 47	
Amounts carried forward . . .			$3,810 79	$11,000 00

Public Highways and Sanitation — Continued.

BOSTON BRIDGES, GENERAL EXPENSES — Continued.

Amounts brought forward . .			$3,810 79	$11,000 00
For Prison Point Bridge:—				
Bedding, R. H. White Co. . .		$5 50		
Desk, D. J. Sullivan . . .		1 87		
Hardware and supplies, sundry persons		5 25		
Oil, Wm Hewton		3 40		
Plumbing, Thomas J. Hennigan .		9 00		
			25 02	
River Street Bridge:—				
Fuel, Mass. Wharf Coal Co. . .		$5 60		
Hardware:—				
E. T. Bynner . .	$23 09			
A. M. Robbins . .	88			
		23 97		
Lighting, Camb. Elec. Light Co. .		48 00		
Lumber:—				
Geo. W. Gale Lumber Co.	$106 27			
Geo. H. Jennings .	2 09			
Wm. H. Wood & Co. .	107 40			
		215 76		
Moving motors, motor houses, etc.:—				
Holbrook, Cabot & Rollins Corp.		50 00		
Repairing bridge:—				
John T. Scully & Bro.	$217 62			
John T. Scully Foundation & Trans. Co. .	13 50			
H. J. Shaw . . .	13 96			
		245 08		
Setting up motors, H. J. Shaw .		124 44		
			712 85	
West Boston Bridge:—				
Blacksmithing, H J. Shaw . .		$6 98		
Cleaning bridge, Austin Ford & Son		259 25		
Desk, D J. Sullivan . . .		1 88		
Fuel:—				
Mass. Wharf Coal Co.	$5 60			
Metropolitan Coal Co.	9 60			
		15 20		
Hardware, Dodge-Haley Co. . .		3 72		
Ice, Independent Ice Co . .		6 00		
Lighting:—				
Cambridge Electric Light Co. . .	$240 00			
Edison Elec. Illuminating Co. . . .	372 30			
		612 30		
Oil, Standard Oil Co. . . .		5 13		
Salt, Eastern Salt Co. . . .		7 50		
			917 96	
Western Avenue Bridge:—				
Hardware:—				
Boston Bolt Co. . .	$7 74			
E T. Bynner . .	9 58			
		$17 32		
Lighting, Camb. Elec. Light Co. .		48 00		
Amounts carried forward . .			$5,466 62	$11,000 00

Public Highways and Sanitation — Continued.

BOSTON BRIDGES, GENERAL EXPENSES — Concluded.

Amounts brought forward		$5,466 62	$11,000 00
For lumber: —			
Geo W. Gale Lumber Co.	$50 29		
E. B. James Lumber Co.	2 85		
Geo. H. Jennings	25 34		
Geo. McQuesten Co	8 93		
Wm. H. Wood & Co.	149 35		
	236 76		
Repairing bridge: —			
John T. Scully & Bro.	$152 33		
John T. Scully Foundation & Trans. Co.	48 16		
H. J. Shaw	15 64		
	216 13		
		518 21	
Total			5,984 83
Surplus of appropriation			$5,015 17
Transfers from this account: —			
To Street Department, Bridges		$1,800 00	
To Street Department, Collection of Ashes		700 00	
To Boston Bridges, Salaries and Labor		6 78	
			2,506 78
Balance relinquished to General Treasury			$2,508 39

BRIDGES.

CAMBRIDGE BRIDGE.

Appropriation $97,526 77

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For sale of old building $25 00

EXPENDED.

For salaries of: —			
Commissioner, E. D. Leavitt		$1,250 00	
Chief engineer, Wm. Jackson		1,500 00	
Assistant Secretary: —			
Edw. A. Counihan		125 00	
Assistant Engineers: —			
John E Cheney	$1,000 00		
M. G. Woodward	900 00		
L. F. Cutter	641 66		
F. H. Fay	131 25		
G. E. Harkness	578 00		
H. F. Sawtelle	665 13		
		3,916 04	
Amounts carried forward		$6,791 04	$97,526 77

Public Highways and Sanitation — Continued.

CAMBRIDGE BRIDGE — Continued.

Amounts brought forward . .	$6,791 04		$97,526 77
For draughtsmen :—			
E. L. Russell . . . $93 00			
Paul S. Yendell . . 26 00			
———	119 00		
Inspectors :—			
J. P. Carroll . . . $676 00			
J. R. Hews . . . 837 50			
———	1,513 50		
Rodman, J. E. Martin . . .	272 00		
Transitmen :—			
Ed. Barnwell . . . $15 00			
J. F. Gorman . . . 426 25			
F. M. Leonard . . 495 00			
———	936 25		
Axeman, F. J. Steele . . .	302 00		
Boatmen :—			
B. F. Fallon . . $412 50			
W. J. Sheehan . . 327 00			
———	739 50		
Messenger, C. F. Collins . . .	412 50		
Tallyman, M. J. Shea . . .	391 25		
Clerks :—			
Timothy A. Butler . . $250 00			
James A. McKibben . 125 00			
Chas. S. Parsons . . 125 00			
———	500 00		
	———	$11,977 04	
Advertising :—			
Boston Herald Co.	$6 75		
Boston Traveler Co. . . .	6 87		
Cambridge Chronicle . . .	4 38		
Cambridge Sentinel Publishing Co.	5 07		
Cambridge Tribune . . .	3 69		
Globe Newspaper Co. . . .	4 25		
Post Publishing Co. . . .	6 37		
Times Publishing Co. . . .	3 75		
	———	41 13	
Borings, Gow & Palmer . . .		52 29	
Building foundations and moving women's building at Charlesbank :—			
Griffin & Farrell		1,007 49	
Repairing women's building at Charlesbank :—			
City of Boston, Park Department .		593 84	
Carpentry and driving piles :—			
John T. Scully & Bro. . . .	$579 40		
John T. Scully Foundation & Transportation Co. . . .	995 61		
	———	1,575 01	
Carriage hire, James F. Ormond .		25 50	
Amounts carried forward . . .		$15,272 30	$97,526 77

Public Highways and Sanitation — Continued.

CAMBRIDGE BRIDGE — Continued.

Amounts brought forward . .		$15,272 30	$97,526 77
For carving on Piers 5 and 6 :—			
John Evans & Co.		8,000 00	
Cash expended for sundries :—			
M. G. Woodward		108 00	
Cast iron fascia :—			
G. W. & F. Smith Iron Co. . .		5,765 62	
Copies of drawing, Leon Dadmun .		2 25	
Copper joints, E. B. Badger & Sons Co		389 38	
Cut granite for passageway walls :—			
Rockport Granite Co. . . .		4,523 50	
Cut granite for abutments :—			
Rockport Granite Co. . . .		318 50	
Cut stone for Cambridge abutment :—			
Rockport Granite Co. . . .		352 00	
Fuel, Coleman Bros. . . .		29 11	
Granite curbing, John Harrington .		10,136 14	
Granite parapet for ten masonry piers :—			
Rockport Granite Co. . . .		5,000 00	
Hardware and supplies :—			
Broadway Iron Foundry Co. . .	$1 50		
E. T. Bynner	15 30		
Dodge-Haley Co.	85 04		
Eastern Expanded Metal Co. . .	43 20		
		145 04	
Iron work, H. J. Shaw . . .		2 59	
Labor performed by Holbrook, Cabot & Rollins Corporation :—			
Building platforms at end of Piers 5 and 6	$365 83		
Building water stop . . .	187 18		
Fitting up office for engineers .	30 19		
Laying stone, Cambridge abutment	223 18		
Leveling dirt and cleaning out piers	125 74		
Lightering stone, laying masonry and setting up derrick . .	338 90		
Material for shoes on piers, material for fence and building water stops on piers	257 75		
Rear walls and filling at abutments	5,885 80		
Rebuilding sea wall at Cambridge end	1,141 61		
Amounts carried forward . . .	$8,556 18	$50,044 43	$97,526 77

Public Highways and Sanitation — Continued.

CAMBRIDGE BRIDGE — Continued.

Amounts brought forward . .	$8,556 18	$50,044 43	$97,526 77
For paving and laying edgestones .	16,447 00		
Sewer at Boston end . . .	2,181 07		
Unfinished work on ten piers .	250 00		
Widening First street . . .	142 89		
Work on abutments . . .	4,577 36		
		32,154 50	
Lumber :—			
Geo. W. Gale Lumber Co. . .	$157 81		
Geo. McQuesten Co. . . .	226 11		
Guy Murchie	169 23		
Wm. H. Wood & Co. . . .	1,428 05		
		1,981 20	
Model of bridge rail, John Evans & Co.		103 00	
Parapet masonry for abutments :—			
Rockport Granite Co. . . .		3,200 00	
Paving blocks, Pigeon Hill Granite Co.		7,139 74	
Pitching base under surface tracks :—			
Daniel J. Kiley		291 16	
Plans, etc. :—			
Prof. services, E. M. Wheelwright	$1,200 00		
Draughting	338 78		
		1,538 78	
Printing, stationery, etc. :—			
Chas. E. Moss	$1 20		
Edward W. Wheeler . . .	13 74		
		14 94	
Rent of room :—			
P. J Rowe	$20 00		
Catherine B. Rowe . . .	40 00		
		60 00	
Rent of wharf :—			
Frank D. Allen, Receiver Central National Bank		350 00	
Scuppers :—			
Broadway Iron Foundry Co. . .		98 75	
Services inspecting repairs :—			
Geo. M. Clukas		75 00	
Steel bars :—			
Aberthaw Construction Co. . .		98 42	
Steel superstructure :—			
Phoenix Bridge Co. . . .		44,490 41	
Steel work erected at ends of Spans 1 and 2 :—			
Phoenix Bridge Co. . . .		150 00	
Stone, Rockport Granite Co. . .		18 75	
Amounts carried forward . . .		$141,809 08	$97,526 77

Public Highways and Sanitation — Continued.

CAMBRIDGE BRIDGE — Continued.

Amounts brought forward . .			$141,809 08	$97,526 77
For telephone service			52 06	
Trevelling expenses, Wm. Jackson			57 50	
Approach to Cambridge Bridge: —				
Advertising: —				
Cambridge Chronicle .	$22 25			
Cambridge Tribune .	9 75			
		$32 00		
Examining title, Wm. V Thompson		100 00		
Executions of court: —				
Edward Kendall et al.	$62,041 18			
Isaac E. Soles . .	550 00			
		6,2591 18		
Recording documents: —				
Edwin O Childs, Register . .		1 75		
Reporting arguments: —				
Henry P. Jones		33 25		
Serving notice, James E Lennon .		1 50		
Services as experts in case of Edw. Kendall & Geo B. Roberts: —				
Isaac Blair & Co. .	$25 00			
John Cavanagh & Son Building Moving Co	25 00			
Watson G Cutter & Sons . . .	50 00			
Wellington Fillmore .	500 00			
H. W. Hand . .	2,524 50			
Jerome C. Hosmer .	192 50			
W. A. Mason & Son .	15 00			
Wm. N. Young . .	140 00			
		3,472 00		
Teaming, Neil McDevitt . .		20 25		
		$66,251 93		
Expenses of Sewer Department: —				
Labor, as per pay roll . . .		$8,016 85		
Engineering, as per pay roll . .		175 25		
Advertising, Boston Herald Co. .		16 50		
Blacksmithing, H J. Shaw . .		38 21		
Castings, Osgood & Witherly .		40 55		
Cement, David W. Lewis Co. .		56 23		
Contract for constructing bridge and abutment at corner of First and Main sts.: —				
Wm. Crane		1,375 69		
Filling, gravel, etc., Wm. B Mullen		591 39		
Fuel, Consumers' Coal Co. . .		76 21		
Hardware, tools and repairs, and supplies: —				
Boston Woven Hose & Rubber Co. . .	$10 19			
E. T. Bynner . .	109 10			
		119 29		
Lumber, Geo. W. Gale Lumber Co.		1,903 53		
Oil, Standard Oil Co. . . .		16 00		
Amounts carried forward . . .		$78,677 63	$141,918 64	$97,526 77

Public Highways and Sanitation — Continued.

CAMBRIDGE BRIDGE — Concluded.

Amounts brought forward . .	$78,677 63	$141,918 64	$97,526 77
For piles: —			
John T. Scully Transportation & Foundation Co. . . .	282 59		
Pipe and fittings: —			
Curtis & Pope Lumber Co. $574 11			
Eastern Clay Goods Co. 519 72			
	1,093 83		
Sewer bricks: —			
New England Brick Co. . .	$51 90		
Traps — :			
Boston Double Catch-Basin, Sewer & House Trap Co. .	21 00		
Teaming, sundry persons . .	191 87		
Use of engines and pumps: —			
Geo E. Worthen . . .	209 00		
Transfer: —			
Stock and labor, Water Dept. .	138 82		
Total expenses of Sewer Dept.	$14,414 71		
Expenses of Street Dept: —			
Labor, as per pay-roll . . .	8,028 92		
Freight, Boston & Maine R. R. .	176 53		
Hardware, tools, and supplies: —			
E. T. Bynner . . $28 85			
Dodge-Haley Co. . 18 08			
	46 93		
Lumber, Geo. W. Gale Lumber Co.	13 50		
Oil, Thos. R. Nevins . .	15 50		
Paving bricks, Parry Brick Co. .	295 75		
Stone: —			
Edgestone: —			
S. & R. J. Lombard . $453 29			
Granite blocks: —			
S. & R J. Lombard .. 6,080 17			
Granite flagging: —			
S. & R. J. Lombard . 57 72			
	6,591 18		
Teaming: —			
Sundry persons, as per pay-rolls	2,473 76		
Total expenses of Street Dept.	$17,642 07		
Total expenses of approach . . .		98,308 71	
Total			240,227 35
Excess of expenditures over appropriation . .			$142,700 58
Additional appropriation			250,000 00
Balance relinquished to General Treasury . . .			$107,299 42

Public Highways and Sanitation— Continued.

BRIDGES. (4.12)

BRIDGES, STREET DEPARTMENT.

Appropriation			$4,000 00
	EXPENDED.		
For salaries of draw-tenders: —			
James Corbalis	$920 59		
John Gaughan	1,000 00		
		1,920 59	
Labor, as per pay roll		1,556 73	
First Street Bridge: —			
Hardware: —			
Philips Bros & Co. $3 25			
A. M. Robbins 6 95			
Sundry persons 2 61			
	12 81		
Iron work, H. J. Shaw	22 14		
Lumber, Wm H. Wood & Co.	105 84		
Oil, Geo. Wm. Waite Co.	3 46		
Use of lighter and labor: —			
John T. Scully & Bro.	169 48		
Sundries, Joseph B. Whoriskey	4 60		
		318 33	
Third Street Bridge: —			
Hardware: —			
E. T. Bynner $5 83			
Sundry persons 3 61			
	$9 44		
Iron work, H. J. Shaw	11 35		
Lumber, Wm. H Wood & Co.	177 60		
Oil, Geo. Wm. Waite Co.	3 47		
Sundries, Jos. B. Whoriskey	4 60		
		206 46	
Sixth Street Bridge: —			
Hardware, sundry persons	$6 46		
Lumber, Wm. H. Wood & Co.	3 51		
Iron work, H. J Shaw	4 77		
Oil, Geo. Wm. Waite Co.	3 47		
Sundries, Jos. B. Whoriskey	4 60		
		22 81	
Walden Street Bridge: —			
Bran, J. Cushing & Co.	$6 00		
Lumber, Geo W. Gale Lumber Co.	25 00		
		31 00	
Huron Avenue Pipeway Bridge: —			
Hardware, tools and repairs and supplies: —			
Brock Bros. $6 17			
Brock & Eaton 31 50			
E. T. Bynner 39 31			
Waterproof Paint Co. 11 00			
	87 98		
Amounts carried forward	$87 98	$4,055 92	$4,000 00

Public Highways and Sanitation — Continued.

BRIDGES, STREET DEPARTMENT — Concluded.

Amounts brought forward . .	$87 98	$4,055 92	$4,000 00
For lumber: —			
Geo. W. Gale Lumber Co. $9 60			
Geo. H. Jennings . 594 35			
E. D. Sawyer Lumber Co. 210 97			
	814 92		
Huron Avenue Railroad Bridge: —			
Hardware, tools and repairs and supplies: —			
Brock Bros. . . $7 40			
J Cushing & Co. . . 6 00			
Dodge-Haley Co. . 7 80			
Waterproof Paint Co. 22 00			
	43 20		
Labor of sectionmen: —			
Boston & Maine R. R. . .	18 90		
Lumber: —			
Geo. W. Gale Lumber Co. $12 30			
Geo H. Jennings . 598 20			
E. D Sawyer Lumber Co. 266 44			
	876 94		
		1,841 94	
Total			5,897 86
Excess of expenditures over appropriation . . .			$1,897 86
Transfer to this account from Boston Bridges, General Expenses			1,800 00
Additional appropriation			119 48
Balance relinquished to General Treasury . . .			$21 62

MISCELLANEOUS. (4.13)

DAMAGES TO PERSONS AND PERSONAL PROPERTY.

Appropriation			$2,000 00
EXPENDED.			
For executions of court: —			
Ella M. Adams	$275 00		
Mary A. Canavan	200 00		
Trueman N. Gray	550 00		
Maurice Haley	75 00		
		1,100 00	
Damages awarded: —			
Lucian S. Cabot	$6 00		
Jeremiah Donovan	250 00		
Edw. E. Hannaford . . .	50 00		
Amounts carried forward . . .	$306 00	$1,100 00	$2,000 00

Public Highways and Sanitation — Concluded.

DAMAGES TO PERSONS AND PERSONAL PROPERTY — Concluded.

Amounts brought forward . .	$306 00	$1,100 00	$2,000 00
For Mary Holly	200 00		
John B. McCloskey . . .	12 00		
Charles E. Mongan . . .	50 00		
Charles H. Morse	51 25		
Wm. H Tucker	10 00		
Gertrude A. Webber . . .	10 00		
		639 25	
Total			1,739 25
Surplus of appropriation relinquished to General Treasury			$260 75

CIVIL SERVICE DEPARTMENT.

Appropriation	$250 00

EXPENDED.

For salary of clerk, Harry L. Lincoln .	$200 00	
Commission as Justice of the Peace :—		
Harry L Lincoln	7 00	
Stationery, Wm. M. L. McAdams .	43 00	
Total		$250 00

SCHEDULE A-VIII

APPROPRIATIONS AND EXPENDITURES

No. 5

MUNICIPAL ENTERPRISES

5. MUNICIPAL ENTERPRISES.

WATER DEPARTMENT (5.1)

CONSTRUCTION, GENERAL.

Appropriation	$19,090 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For labor and materials	$800 29
Premium on bonds	3,051 45
	$3,851 74

EXPENDED.

For labor, as per pay roll			$5,267 72
Advertising, Cambridge Chronicle			27 25
Expressage: —			
American Express Co.	$7 47		
Dodge Express Co.	22 71		
Sundry persons	3 00		
			33 18
Freight: —			
Boston & Maine R. R.	$10 45		
N. Y. Central & Hudson River R. R. Co.	450 72		
			461 17
Gate boxes: —			
Walworth Manufacturing Co.			262 50
Hardware, tools and repairs: —			
E. T. Bynner	$0 50		
Chandler & Farquhar Co.	8 98		
			9 48
Lawn fence: —			
Joseph Breck & Sons, Corp.			50 46
Lead: —			
Chadwick-Boston Lead Co.	$121 73		
Fitz, Dana & Co.	120 05		
Richards & Co.	123 86		
Waite, Ranlet & Co.	123 12		
			488 76
Legal services in case of John C. Gray et al.: —			
Hollis R. Bailey			300 00
Lumber, Geo. W. Gale Lumber Co.			13 58
Meters, fittings and repairs: —			
Hersey Manufacturing Co.	$4 71		
Charles F. Merrill	7 20		
Neptune Meter Co.	240 00		
Union Water Meter Co.	674 50		
Henry R. Worthington	553 16		
			1,479 57
Amounts carried forward		$8,393 67	$19,090 00

Municipal Enterprises — Continued.

WATER DEPARTMENT—Continued.

CONSTRUCTION, GENERAL — Concluded.

Amounts brought forward . .		$8,393 67	$19,090 00
For pipe and fittings: —			
Builders Iron Foundry . . .	$199 16		
City of Somerville	13 64		
Davis & Farnum Manufacturing Co.	120 69		
United States Cast Iron Pipe & Foundry Co.	4,593 91		
Walworth Manufacturing Co. .	88 82		
Watertown Water Department .	36 88		
Water Works Equipment Co. .	27 00		
		5,080 10	
Relaying drain, Samuel McCulloch .		29 55	
Sundries		5 32	
Transfer: —			
Stock, Street Department . .		5 74	
Unloading privilege and storage of pipe: —			
John T. Scully Foundation & Transportation Co.		15 00	
Valves, hydrants and fittings: —			
Chapman Valve Manufacturing Co.	$598 63		
Walworth Manufacturing Co. .	47 10		
Water Works Equipment Co. .	70 53		
		716 26	
Water gates, Coffin Valve Co. . .		295 50	
Total			14,541 14
Surplus of appropriation relinquished to General Treasury			$4,548 86

CONSTRUCTION, HOBBS' BROOK ACCOUNT.

GENERAL.

Appropriation	$300 00

EXPENDED.

For bricks, cement, drain pipe, etc.: —		
J. Cushing & Co.	$17 77	
Connecting drains, Arthur L. Hersum	45 45	
Total		63 22
Surplus of appropriation relinquished to General Treasury		$236 78

Municipal Enterprises — Continued.

WATER DEPARTMENT—Continued.

HOBBS' BROOK ACCOUNT, LAND SETTLEMENTS.

Appropriation		$10,000 00
EXPENDED.		
For damages, Lucinda Cutting, et al.	$1,600 00	
Examining title, Clarence F. French	28 10	
Total		1,628 10
Surplus of appropriation relinquished to General Treasury		$8,371 90

SERVICES OF CITY SOLICITOR.

Appropriation		$500 00
EXPENDED.		
For transfer:—		
Services of City Solicitor, Law Department	$500 00	
Total		$500 00

CONSTRUCTION, METERS.

Appropriation			$5,500 00
EXPENDED.			
For labor, as per pay-roll		$897 50	
Advertising, Cambridge Chronicle		7 25	
Expressage, sundry persons		5 82	
Freight, Boston & Maine R. R.		8 91	
Lumber and cement:—			
Geo. W. Gale Lumber Co.		53 92	
Meter frames and boxes:—			
Chas. F. Merrill		82 80	
Meters and fittings:—			
Union Water Meter Co.	$182 50		
Walworth Manufacturing Co.	218 65		
Henry R. Worthington	2,827 11		
		3,228 26	
Pipe:—			
David W. Lewis Co.	$18 95		
Walworth Manufacturing Co.	36 00		
		54 95	
Sundries		4 10	
Total			4,343 51
Surplus of appropriation relinquished to General Treasury			$1,156 49

Municipal Enterprises — Continued.

WATER DEPARTMENT—Continued.

CONSTRUCTION, HOBBS' BROOK CONDUIT.

Appropriation			$250,000 00
EXPENDED.			
For services of civil engineer and assistants: —			
Freeman C. Coffin		$3,741 96	
Services of superintendent of construction: —			
Chas. G. Craib		2,187 50	
Engineers, as per pay roll		1,883 31	
Laborers, as per pay roll		132,170 79	
Clerks: —			
Mabel M. Robbins	$71 00		
Libbie A. Anderson	86 00		
		157 00	
Advertising: —			
Boston Herald Co.	$25 14		
Cambridge Chronicle	51 50		
Cambridge Sentinel Publishing Co.	65 50		
Cambridge Tribune	50 50		
Times Publishing Co.	38 00		
		230 64	
Analyses of cement: —			
Nelson A. Hallett	$266 00		
Herbert L. Sherman	37 10		
		303 10	
Bag, Tobias & Wall		4 00	
Blue prints, Spaulding Print Paper Co.		8 79	
Boots, American Rubber Co.		119 12	
Bricks, New England Brick Co.		607 55	
Building sewer, Town of Watertown		3,411 54	
Car tickets: —			
Boston Elevated Railway Co.		112 50	
Castings: —			
Barbour-Stockwell Co.	$52 30		
Chelmsford Foundry Co.	7 00		
Waltham Foundry Co.	24 00		
		83 30	
Cement: —			
David W. Lewis Co.	$17,636 49		
Waldo Bros.	4 00		
		17,640 49	
Clothing, H. M. Sawyer & Son		50 63	
Coach for paymaster, John J Shea		110 00	
Course, Robb-Mumford Boiler Co.		93 60	
Cracked stone: —			
Waltham Trap Rock Co.		233 53	
Amounts carried forward		$163,149 35	$250,000 00

Municipal Enterprises — Continued.

WATER DEPARTMENT—Continued.

CONSTRUCTION, HOBBS' BROOK CONDUIT — Continued.

Amounts brought forward . .		$163,149 35	$250,000 00
For construction of office and cement shed :—			
Gustavus Wilson		996 00	
Damage to crops and personal property :—			
D. K. Boyajai	$50 00		
Alfred M. Davenport . . .	200 00		
Raffaele Frigio . . .	50 00		
Guiseppe Raimando . . .	15 00		
		315 00	
Door and window frames : —			
Thos. J. Johnson & Co. . . .		53 65	
Driving piles : —			
John T. Scully Foundation & Transportation Co.		845 03	
Driving well, B. F. Smith & Bro. .		220 96	
Engineers' instruments and repairs :—			
C. L. Berger & Sons . .	$14 40		
Frost & Adams Co. . . .	41 34		
G. G. Ledder	11 00		
		66 74	
Expense on account of putting conduit under railroad tracks :—			
Boston & Maine R. R. . . .		1,166 67	
Expense of inspection by Water Board and City Goverment :—			
Carriage hire :—			
J. J. Callahan . .	$11 00		
Cambridge Coach Co. .	24 50		
Chas. W. Dailey . .	21 00		
Geo. E. Francis . .	11 00		
I. J. Goodhue . .	5 00		
Frank P. Merrill .	5 00		
George D Merrill .	5 75		
Fred D. Norton . .	65 00		
H. K. Parsons & Co. .	10 00		
Potter's Stable . .	5 00		
Soden Street Stable .	6 00		
G F. Whiting & Co. .	33 00		
T. W. Hillier & Co. .	6 00		
		$208 25	
Cigars :—			
Holderer & Macdonald	$33 75		
Peter Le Francis & Sons	6 00		
		39 75	
Dinners :—			
Colonial Club . .	$80 95		
Frederic Wilkey . .	72 40		
		153 35	
Services of orchestra :—			
Daggett's Orchestra .		15 00	
Amounts carried forward . . .		$416 35	$166,813 40 $250,000 00

Municipal Enterprises — Continued

WATER DEPARTMENT — Continued.

CONSTRUCTION, HOBBS' BROOK CONDUIT — Continued.

Amounts brought forward	$416 35	$166,813 40	$250,000 00
For special cars :—			
Boston Elevated Rail'y Co. $5 00			
Newton St Railway Co. 5 00			
	10 00		
Transportation, Boston & Maine R. R.	3 10		
		429 45	
Examination of conduit, making tests and report :—			
Howard A. Carson		57 00	
Expressage and teaming :—			
C. P. Callahan	$20 25		
Emerson Express Co.	75		
King & Boyd	30 00		
Snow Forwarding Co.	137 50		
T. Tighe & Sons	161 97		
		350 47	
Freight and demurrage :—			
Boston & Maine R. R.		172 68	
Fuel :—			
Bay State Fuel Co.	$210 00		
Coleman Bros.	99 00		
W. H. Pevear & Co.	83 53		
David Proudfoot & Co.	127 50		
Wellington & Buck	85 00		
		605 03	
General retainers as real estate experts :—			
Fred E Critchett	$100 00		
Chester Sprague	100 00		
		200 00	
Gravel broken stone, and sand :—			
E O Morris	$6 00		
Wm. B. Mullen	11,337 60		
		11,343.60	
Granolithic floor in weir house :—			
Warren Bros Co.		170 00	
Hardware, tools and repairs, and supplies :—			
Aberthaw Construction Co.	$204 27		
Harold L Bond Co.	1,822 44		
Boston Bolt Co.	88 98		
Boston Engineers' Supply Co.	80 69		
Brock & Eaton	220 78		
Brock Bros.	259 13		
G. W. Burditt	149 74		
Burditt & Williams Co.	37 12		
E. T. Bynner	609 22		
P. J. Carmichael	118 06		
Chadwick-Boston Lead Co.	45 11		
Frank E Coolidge	77 55		
Dodge-Haley Co.	116 56		
Amounts carried forward	$3,829 65	$180,141 63	$250,000 00

Municipal Enterprises— Continued.

WATER DEPARTMENT—Continued.

CONSTRUCTION, HOBBS' BROOK CONDUIT — Continued.

Amounts brought forward . .	$3,829 65	$180,141 63	$250,000 00
For Walter W. Field	6 55		
A. C. Fletcher	18 82		
P. J. Keefe	5 80		
Laflin & Rand Powder Co. . .	8 00		
J. W. Littlefield	47 75		
A M Robbins	339 71		
Robb-Mumford Boiler Co. . .	47 79		
Sessions Foundry Co. . . .	237 20		
L A. Stingel	141 82		
Walworth Manufacturing Co. .	12 94		
A. J. Wilkinson & Co. . . .	13 39		
A. M Wood Co.	1,201 45		
Sundry persons	11 25		
		5,922 12	
Hay, S. B. Green & Co. . . .		6 93	
Labor, extending sidetrack :—			
Boston & Maine R. R. . . .		103 89	
Laying pipe, Watertown Water Dept.		67 49	
Lead, Waite, Ranlet & Co. . .		211 01	
Lumber and mill work :—			
Curtis & Pope Lumber Co. . .	$10,356 73		
Geo. W. Gale Lumber Co. . .	292 03		
Ira G. Hersey	120 64		
Moore & Leighton	68 80		
E. D. Sawyer Lumber Co. . .	167 47		
David F. Scranton	8 50		
Wm. H. Wood & Co. . . .	187 08		
		11,201 25	
Meters, Henry R. Worthington . .		13 00	
Office furniture :—			
Morris-Ireland Safe Co. . . .	$32 00		
Phillips Bros. & Co. . . .	17 00		
		49 00	
Oil, Standard Oil Co. . . .		117 30	
Painting and lettering signs :—			
Chas. Waugh & Co.		4 00	
Photographs, Whitney & Son . .		121 50	
Pipe and fittings :—			
A. C. Fletcher	42 80		
David W. Lewis Co. . . .	201 00		
Robb-Mumford Boiler Co. . .	800 00		
John H. Stevens & Co. . . .	20 02		
Warren Foundry & Machine Co. .	4,056 10		
		5,119 92	
Premium for liability insurance :—			
Samuel Appleton		4,125 00	
Amounts carried forward . . .		$207,204 04	$250,000 00

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

CONSTRUCTION, HOBBS' BROOK CONDUIT — Continued.

Amounts brought forward . .		$207,204 04	$250,000 00
For raising and moving buildings, etc. :—			
H. S. Angus & Son		303 20	
Recording documents :—			
E. O. Childs, Register . . .		7 00	
Removing and replacing wires :—			
Watertown Fire Dept. . . .		9 00	
Rental of land, John W. Hinkley .		300 00	
Rental of machinery :—			
Booth & Co.	$782 33		
Carson Trench Machine Co. . .	2,172 23		
Wm. Dwyer	613 33		
Metropolitan Contracting Co. .	135 43		
C. C. Rollins	140 00		
Geo. E. Worthen	348 00		
		4,191 32	
Repairs to buggy damaged by projecting timber :—			
J. P. Sullivan		5 75	
Repairing wall, Wm J. McCoy, Jr. .		50 00	
Replacing track at Arsenal Street :—			
Boston & Maine R. R. . . .		60 32	
Services in appraisal of damage :—			
S. S. Gleason		375 00	
Sods, John M. Riley		10 14	
Stationery, printing, etc. :—			
Cambridge Chronicle . . .	$132 00		
Cotton & Gould	9 00		
Wm. M. L McAdams . . .	92 00		
		233 00	
Stamp, Boston Stencil & Stamp Works		5 50	
Steel forms, chutes, etc. :—			
Robb-Mumford Boiler Co. . .		3,087 20	
Stone sills, Austin Ford & Son . .		27 50	
Teaming, sundry persons . .		9,808 08	
Telephone service		64 35	
Transfer :—			
Supplies, Postage and Stationery Account		32 13	
Typewriter, Remington Typewriter Co.		59 50	
Amounts carried forward . .		$225,833 03	$250,000 00

Municipal Enterprises — Continued.

WATER DEPARTMENT— Continued

CONSTRUCTION, HOBBS' BROOK CONDUIT — Concluded.

Amounts brought forward . .		$225,833 03	$250,000 00
For use of horse and buggy :—			
Cambridge Coach Co. . . .		269 00	
Use of siding, Boston & Maine R. R.		103 00	
Water used, Watertown Water Dept.		132 44	
Total			226,337 47
Surplus of appropriation relinquished to General Treasury			$23,662 53

CONSTRUCTION, STONY BROOK-MAIN.

Appropriation			$4,063 79
EXPENDED.			
For services of civil engineer and expenses :—			
Freeman C. Coffin		$977 82	
Services as consulting engineer :—			
Wm. Jackson		1,000 00	
Constructing syphon around Stony Brook conduit :—			
Town of Watertown . . .		146 98	
Expenses of inspection of Water Works System :—			
Car fares, E. C. Brooks . .	$1 40		
Carriage hire :—			
Cambridge Coach Co. .	$5 00		
Chas. W. Dailey . .	5 00		
Frank P. Merrill . .	8 00		
Fred D. Norton . .	5 00		
	23 00		
Cigars, Geo. M. Olive . . .	3 62		
Dinners, Mrs. Emma G. Bryant .	112 66		
		140 68	
Stationery and printing :—			
Cambridge Chronicle . . .		7 50	
Water used, Watertown Water Dept.		1,546 15	
Total			3,819 13
Surplus of appropriation relinquished to General Treasury			$244 66

Municipal Enterprises — Continued.

WATER DEPARTMENT—Continued.

MAINTENANCE.

SALARIES OF SUPERINTENDENT, REGISTRAR, CLERK OF BOARD, INSPECTORS AND CLERKS.

Appropriation			$10,500 00
EXPENDED.			
For salaries of: —			
Superintendent, E. C. Brooks		$2,000 00	
Registrar and Clerk of Board: —			
W. H. Harding		2,200 00	
Inspectors: —			
F. G. Davis	$1,000 00		
C. E. McGuire	1,000 00		
Jeremiah J. Reagan	787 50		
		2,787 50	
Clerks: —			
H. L. Lincoln	$1,200 00		
H. F. Milligan	782 50		
M. M. Robbins	590 00		
F. M. Cone	939 00		
		3,511 50	
Total			10,499 00
Surplus of appropriation relinquished to General Treasury			$1 00

GENERAL EXPENSES.

Appropriation			$27,700 00
DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.			
For maintenance	$1,081 44		
Off and on	511 00		
Rent	160 00		
Seals	91 50		
Supply	3,592 45		
Accrued interest	1,085 97		
Rates, fines, etc.	348,661 51		
	$355,183 87		
EXPENDED.			
For labor, as per pay roll		$16,811 73	
Salary of treasurer of Water Loan Sinking Fund: —			
Wm W. Dallinger		200 00	
Advertising, Cambridge Chronicle		15 25	
Amounts carried forward		$17,026 98	$27,700 00

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

MAINTENANCE, GENERAL EXPENSES — Continued.

Amounts brought forward		$17,026 88	$27,700 00
For base for fountain: —			
J. L. Mott Iron Works		24 75	
Blankets, napkins, etc.: —			
Shepard, Norwell Co.		14 50	
Bicycle repairs, Geo. F. Schwartz Co.		1 10	
Boots, American Rubber Co.		19 08	
Boxes, Place Box Co.		2 40	
Bricks, Parry Brick Co.		6 50	
Broken stone: —			
Waltham Trap Rock Co.		169 27	
Carpentry: —			
W. Fillmore Co.	$4 29		
C. S. Newcomb	131 80		
		136 09	
Car tickets: —			
Boston Elevated Railway Co.		250 00	
Carriage hire: —			
G. F. Whiting & Co.		199 50	
Carriage and wagon repairs: —			
Wm. Elliott & Co.	$53 75		
Chas. Waugh & Co.	340 42		
		394 17	
Clay, David W. Lewis Co.		5 50	
Charts, The Bristol Co.		4 00	
Cleaning safe: —			
Mrs. Rose E McGoldrick		1 80	
Clock repairs: —			
A. J. Applegate Co.	$3 00		
Frank T. Kenney	2 00		
		5 00	
Damage from bursting of water pipe: —			
Michael P. Hoban		75 00	
Diaphragms: —			
Edson Manufacturing Co.		5 70	
Directory, W. A. Greenough & Co.		3 50	
Draining cellar: —			
Joseph B. Rosenberger		2 00	
Electrical supplies: —			
Clark & Mills Electrical Co.		9 00	
Amounts carried forward		$18,355 84	$27,700 00

Municipal Enterprises — Continued.

WATER DEPARTMENT—Continued.

MAINTENANCE, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$18,355 84	$27,700 00
For expressage: —			
American Express Co. . . .	$4 05		
Dodge Express Co. . . .	37 61		
Quinlan's Cambridge & Boston Express	1 50		
Savage & Son	90		
Sawin's Express	2 95		
		47 01	
Freight, Boston & Maine Railroad .		4 89	
Fuel: —			
Cambridge Gas Light Co. . .	$7 21		
Coleman Bros.	85 69		
		92 90	
Gravel: —			
Estate of John McGuinness . .	$0 50		
Miss Josephine Stone . . .	3 25		
		3 75	
Hardware, tools and repairs and supplies: —			
Barbour-Stockwell Co . . .	$6 00		
Blanchard Machine Co. . . .	4 88		
Boston Bolt Co.	1 02		
Boston Belting Co. . . .	20 98		
Brock Bros.	1 08		
G. W. Burditt	1 45		
E. T. Bynner	123 26		
Cambridge Plating Co. . . .	40		
Carpenter-Morton Co. . . .	8 20		
Chandler & Farquhar Co. . .	30 52		
Chapman Valve Mfg. Co. . .	16 39		
Clark & Mills Electric Co. . .	60		
Crosby Steam Gauge & Valve Co.	1 00		
Dennison Manufacturing Co. .	1 23		
Dodge-Haley Co.	24 27		
Henry F. Farrow & Co. . .	5 75		
Globe Gas Light Co. . . .	3 75		
Greenwood & Daggett Co. . .	10 70		
Henry Haley	7 40		
Levi Hawkes	4 74		
G. W. Hayden	25		
Hersey Manufacturing Co. . .	1 78		
J. A. Holmes & Co. . . .	6 00		
Elie H La Pierre	1 32		
David W Lewis Co. . . .	4 00		
James Maitland	124 18		
Roberts Iron Works Co. . .	23 87		
Geo. F. Schwartz	6 50		
H. J. Shaw	3 24		
Simplex Electrical Co. . . .	2 20		
Walworth Manufacturing Co. .	235 08		
James H. Wyeth & Co . . .	1 10		
		683 14	
Amounts carried forward . . .		$19,187 53	$27,700 00

Municipal Enterprises — Continued

WATER DEPARTMENT—Continued.

MAINTENANCE, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$19,187 53	$27,700 00
For harness and repairs and horse-clothing :—			
M. Cavanagh	$40 15		
L. C. Chase & Co.	12 00		
Wm. H. Roberts	57 15		
		109 30	
Hay, grain and straw :—			
J. Cushing & Co.		590 72	
Heater, Walter Macleod & Co. . .		95 00	
Horseshoeing :—			
Wm. Balmer	$53 00		
John F. Gurry	45 25		
Thos. Smith & Sons . . .	78 25		
		176 50	
Ice, Cambridge Ice Co. . . .		16 35	
Iron posts for drinking fountain and drinking cups :—			
Henry F. Jenks Estate . . .		15 01	
Labor on drain :—			
Brock Bros.		77 08	
Labor protecting tracks :—			
Boston & Albany Railroad . .		4 62	
Lighting :—			
Cambridge Gas Light Co. . .		4 00	
Lumber and cement :—			
Eastern Clay Goods Co. . .	$7 08		
Geo. W. Gale Lumber Co. . .	11 30		
		18 38	
Map, Home Educator Co. . . .		98	
Mason work, Frank J. O'Reilly .		28 75	
Meters, fittings and repairs :—			
Hersey Manufacturing Co. . .	$84 39		
National Meter Co. . . .	11 79		
Neptune Meter Co. . . .	88 24		
Thomson Meter Co. . . .	8 60		
Henry R. Worthington . . .	36 88		
		229 90	
Motor service :—			
Cambridge Electric Light Co. .		60 00	
Oil, Standard Oil Co.		18 90	
Painting, Henry Haley . . .		19 37	
Painting drinking fountains :—			
Geo. E. Sawyer & Co. . . .		4 70	
Amounts carried forward . . .		$20,657 09	$27,700 00

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

MAINTENANCE, GENERAL EXPENSES — Continued.

Amounts brought forward . .		$20,657 09	$27,700 00
For paving blocks :—			
S. & R. J. Lombard . .		12 50	
Pipe, fittings and repairs :—			
Barbour-Stockwell Co . . .	$19 85		
Eastern Clay Goods Co. . .	13 84		
Lead Lined Iron Pipe Co. . .	639 22		
David W. Lewis Co. . . .	12 91		
Walworth Manufacturing Co. .	831 53		
		1,517 35	
Plumbing :—			
Arthur W. Balcom	$11 56		
Brock Bros.	6 15		
Herbert L. Rose	7 30		
Thos. C. Sweeney & Co. . .	6 40		
John H. Stevens & Co. . . .	8 90		
		40 31	
Rent of box, Cambridge Trust Co. .		40 00	
Repairs to water pipe connections :—			
Heirs of Peter Welch . . .		6 05	
Repairing sidewalk :—			
Warren Bros. Co.		5 00	
Repairing desk :—			
David Thomson		4 50	
Repairing chair :—			
Margaret M. Hogan . . .		1 75	
Services as electrical expert :—			
Chas. H. Morse		200 00	
Stationery, printing and office supplies :—			
American Tacker Co . . .	$3 50		
Fred L. Beunke	1 50		
Boston Stencil and Stamp Works	2 25		
Brooks Bank Note Co. . . .	22 64		
Cambridge Chronicle . . .	288 00		
Cotton & Gould	88 50		
Geo. E. Crosby & Co. . . .	43 00		
J. A. Cummings Printing Co. .	239 35		
John H. Hezlitt	8 00		
Hooper, Lewis & Co . . .	12 50		
Wm. M. L. McAdams . . .	174 93		
Amounts carried forward . . .	$884 17	$22,484 55	$27,700 00

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

MAINTENANCE, GENERAL EXPENSES — Concluded.

Amounts brought forward . .	$884 17	$22,484 55	$27,700 00
For National Tel. Tablet Holder Co. .	3 00		
Remington Typewriter Co. . .	3 50		
Thorp & Martin Co. . . .	17 72		
		908 39	
Subscriptions: —			
Engineering News Publishing Co. .	$5 00		
Geo. E. French . . .	4 50		
Water & Gas Review Publishing Co.	1 00		
		10 50	
Table, Paine Furniture Co. . .		18 00	
Tags, Dennison Manufacturing Co. .		1 75	
Taxes: —			
City of Waltham	$576 23		
Town of Belmont	323 57		
Town of Lexington . . .	266 42		
Town of Lincoln	99 55		
Town of Weston	64 40		
		1,330 17	
Teaming, sundry persons . . .		5 00	
Telephone service		347 19	
Track work on account of break in water pipe: —			
Boston Elevated Railway Co. .		51 88	
Transfers: —			
Supplies, Postage and Stationery Account	$56 94		
Horseshoeing, Street Department .	60 59		
Sealing, Sealer of Weights and Measures	2 10		
		119 63	
Typewriter repairs: —			
Remington Typewriter Co. . .		2 35	
Valves, hydrants and repairs: —			
Chapman Valve Manufacturing Co.		541 89	
Total			25,821 30
Surplus of appropriation			$1,878 70
Transfer to this account			371 00
Surplus of appropriation relinquished to General Treasury			$2,249 70

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

METROPOLITAN WATER.

Appropriation		$15,000 00
EXPENDED.		
For water used: —		
Metropolitan Water and Sewerage Board	$28,458 50	
Total		28,458 50
Excess of expenditures over appropriation		$13,458 50
Additional appropriation		15,000 00
		$1,541 50
Transfer from this account		1,541 50

MAINTENANCE, PUMPING, SALARIES AND LABOR.

Appropriation		$7,200 00
EXPENDED.		
For salaries of: —		
Engineer, Wm. H. Blaisdell	$1,800 00	
Assistant Engineer, Geo. F. Haven	1,054 28	
Labor, as per pay-rolls	4,631 44	
Total		7,485 72
Excess of expenditures over appropriation		$285 72
Transfer to this account		350 00
Balance relinquished to General Treasury		$64 28

GENERAL EXPENSES.

Appropriation			$9,155 00
EXPENDED.			
For advertising: —			
Cambridge Chronicle		$9 50	
Boots, American Rubber Co.		7 82	
Carpentry: —			
W. Fillmore Co.	$75 80		
C. S. Newcomb	10 08		
		85 88	
Cash expended for cleaning and repairing: —			
Mrs. W. H Blaisdell	$6 10		
Geo. F. Haven	45 14		
		51 24	
Amounts carried forward		$154 44	$9,155 00

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

MAINTENANCE, PUMPING, GENERAL EXPENSES — Continued.

Amounts brought forward		$154 44	$9,155 00
For engine and boiler supplies and repairs:—			
E. B. Badger & Sons Co.	$26 25		
Barbour-Stockwell Co.	7 05		
Geo. F. Blake Manufacturing Co.	4 30		
A. W. Chesterton & Co.	96 31		
The Fairbanks Co.	5 00		
Greenwood & Daggett Co.	2 50		
F. E. Grethe & Co.	45 00		
Alfred Hale Rubber Co.	33 57		
Locke Regulator Co.	4 66		
Lubron Manufacturing Co.	1 56		
Mason Regulator Co.	20		
Frank J. O'Reilley	148 00		
Roberts Iron Works Co.	70		
H. J. Shaw	1 05		
Henry A. Spear	273 33		
Walworth Manufacturing Co.	3 79		
A. J. Wilkinson & Co.	1 00		
		654 27	
Electrical work and supplies:—			
Pettingell-Andrews Co.		7 21	
Expressage:—			
American Express Co.	$0 15		
Anderson's Express	25		
Dodge Express Co.	2 30		
Sawin's Express	4 83		
		7 53	
Freight, Boston & Maine Railroad		313 47	
Fuel:—			
Coleman Bros	$944 69		
Dartmouth Coal Co.	3,722 06		
Metropolitan Coal Co.	115 12		
Wellington-Wild Coal Co.	887 74		
		5,669 61	
Hardware, tools and repairs, and supplies:—			
Boston Bolt Co.	$2 46		
Geo. F Blake Manufacturing Co.	2 88		
Jos. Breck & Sons	27 50		
Brock Bros.	5 90		
F. Bryant & Co.	42 50		
E. T Bynner	43 94		
Chandler & Farquhar Co.	14 82		
Dodge-Haley Co.	4 96		
Hayden & Co	2 00		
James Maitland	75 28		
Pettingell-Andrews Co.	7 57		
Frank Ridlon Co.	50		
Amounts carried forward	$230 31	$6,806 53	$9,155 00

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

MAINTENANCE, PUMPING, GENERAL EXPENSES — Concluded.

Amounts brought forward . .	$230 31	$6,806 53	$9,155 00
For W. A. Wood Co.	53 41		
Jas. H. Wyeth & Co. . . .	8 30		
		292 02	
Ice, Fresh Pond Ice Co. . . .		15 60	
Lumber, Geo. W. Gale Lumber Co. .		7 08	
Oil: —			
Eastern Oil & Gasoline Supply .	$4 20		
Keystone Lubricating Co. . .	44 16		
Philadelphia Grease Manufacturing Co.	118 92		
Alden Speare's Sons Co. . .	2 50		
Standard Oil Co.	20 45		
W. A Wood Co.	150 40		
		340 63	
Painting, etc., Henry Haley . .		6 40	
Telephone service		81 30	
Transfer: —			
Sealing, Sealer of Weights and Measures		1 64	
Window shades, Brock Bros. . .		24 00	
Total			7,575 20
Surplus of appropriation relinquished to General Treasury			$1,579 80

MAINTENANCE, FRESH POND RESERVOIR.

Appropriation			$10,000 00
EXPENDED.			
For labor, as per pay roll . . .		$9,744 00	
Salary of landscape gardener: —			
M. A. Carpenter		1,100 00	
Advertising: —			
Cambridge Chronicle . . .	$11 00		
Cambridge Tribune . . .	6 75		
Times Publishing Co. . . .	6 75		
		24 50	
Bicycle repairs, Geo. F. Schwartz Co.		27 40	
Amounts carried forward . . .		$10,895 90	$10,000 00

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

MAINTENANCE, FRESH POND RESERVOIR — Concluded.

Amounts brought forward . .		$10,895 90	$10,000 00
For building catch-basin: —			
Frank J. O'Reilley		32 00	
Building scows, W. Fillmore Co. .		80 81	
Carpentry, C. S. Newcomb . .		39 51	
Creosote, Samuel Talbot . . .		22 00	
Expressage: —			
Anderson's Express . . .	$1 55		
Dodge Express Co. . . .	4 75		
Sawin's Express	2 60		
		8 90	
Freight, Boston & Maine R. R. . .		2 73	
Grass seed, Jos. Breck & Sons, Corp'n		24 32	
Hardware, tools and repairs, and supplies: —			
Jos. Breck & Sons	$36 55		
Brock Bros.	4 74		
E T. Bynner	46 13		
Levi Hawkes	50		
James Maitland	18 53		
Geo. F. Schwartz Co. . . .	50		
		106 95	
Harness and repairs, Wm. H. Roberts		10 10	
Hay, grain and straw, J. Cushing & Co.		44 34	
Lumber, Geo. W. Gale Lumber Co. .		23 91	
Painting, Henry Haley . . .		15 23	
Poles, Boston Flag Pole Co. . .		3 00	
Posts, Wm. H. Wood & Co. . .		25 00	
Professional services of landscape architects: —			
Olmsted Bros.		41 08	
Services of auctioneer, John J. Ahern		5 00	
Spraying, H. L. Frost & Co. . .		38 00	
Stamp, Wm. M. L. McAdams . .		25	
Snow plow, A. B. Black . . .		55 00	
Teaming, sundry persons . . .		311 50	
Transfer, Horseshoeing, Street Dept.		4 20	
Wagon repairs, Joseph E. Bonin .		9 55	
Total			11,799 28
Excess of expenditures over appropriation . .			$1,799 28
Transfer to this account from Sundry Accounts .			1,800 00
Balance relinquished to General Treasury . . .			72

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

MAINTENANCE, FRESH POND RESERVOIR, GRADING.

Appropriation			$4,475 00
EXPENDED.			
For labor, as per pay-roll		$2,650 73	
Salary of landscape gardener :—			
M. A. Carpenter		100 00	
Carpentry, C. S. Newcomb		122 46	
Castings, Barbour-Stockwell Co.		13 00	
Expressage, Sawin's Express		50	
Fertilizer, E. T. Bynner		109 50	
Grass seed, Jos. Breck & Sons		24 92	
Lumber, Geo. W. Gale Lumber Co.		83 87	
Professional services of landscape architects and surveyors :—			
French & Bryant		34 43	
Stone dust, Waltham Trap Rock Co.		112 58	
Teaming		1,033 51	
Total			4,285 50
Surplus of appropriation			$189 50
Transfer from this account			189 50

MAINTENANCE, HOBBS' BROOK RESERVOIR.

Appropriation			$2,000 00
EXPENDED.			
For keeper, J. E. Bryant		$751 00	
Labor, as per pay roll		24 50	
Carpentry, R. E. Glancey		120 69	
Cutting grass, Robert Dumont		10 00	
Hardware and supplies : —			
Jos. Breck & Sons	$0 59		
G. F. Frost	4 80		
Levi Hawkes	2 50		
J. A. Higgins	7 56		
		15 45	
Harness repairs, Peter Perry		11 70	
Hay, grain and straw : —			
J. Cushing & Co.		54 30	
Heating apparatus, Taylor & Percival		55 00	
Horseshoeing, F. G. Helm		9 75	
Amounts carried forward		$1,052 39	$2,000 00

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

MAINTENANCE, HOBBS' BROOK RESERVOIR — Concluded.

Amounts brought forward . .		$1,052 39	$2,000 00
For painting, W. J. Fisher . . .	$38 90		
Papering, J. H. & J. P. Thayer & Co.	14 48		
Plumbing, A. W. Balcom . . .	390 83		
		444 21	
Professional services: —			
Allen Greenwood, M. D. . .		240 00	
Telephone service		20 11	
Total			1,756 71
Surplus of appropriation			$243 29
Transfer from this account			240 00
Balance relinquished to General Treasury . . .			$3 29

MAINTENANCE, PAYSON PARK RESERVOIR.

Appropriation			$1,235 00
EXPENDED.			
For labor, as per pay-roll . . .		$832 00	
Cable, Simplex Electrical Co. .		37 00	
Carpentry, C S Newcomb . .		5 33	
Electrical work, F. Bryant & Co. .		164 14	
Fuel, Osgood & Wendell . .		6 75	
Hardware and supplies: —			
E. T. Bynner	$0 90		
James Maitland	3 30		
		4 20	
Lumber, Geo. W. Gale Lumber Co. .		16 94	
Masonry, Frank J O'Reilly . .		358 40	
Painting, Henry Haley . . .		55 93	
Transfer, Lumber, Street Dept. .		2 40	
Total			1,483 09
Excess of expenditures over appropriation . . .			$248 09
Transfer to this account			250 00
Balance relinquished to General Treasury . . .			$1 91

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

MAINTENANCE, STONY BROOK RESERVOIR.

Appropriation		$3,000 00
EXPENDED.		
For labor, as per pay-roll	$4 00	
Gateman, Silas Baxter	915 00	
Blankets, L. C. Chase & Co.	8 25	
Cash expended for sundries :—		
Silas Baxter	2 30	
Cleaning cesspools, T. E. Coburn	373 03	
Cesspool frame and cover :—		
Waltham Foundry Co.	2 50	
Dynamite, Waltham Trap Rock Co.	33	
Freight, Boston & Maine R. R.	80	
Fuel, G. F. Frost	15 84	
Hardware, tools and supplies :—		
Ames Plow Co. $1 25		
Herbert Baxter 1 50		
F. Bryant & Co 2 25		
Burditt & Williams Co 16 30		
G. F. Frost 4 25		
Arthur L. Hersum 1 50		
J. A Higgins 10 78		
Smith & Thayer Co. 1 60		
	39 43	
Harness and repairs, Peter Perry	2 60	
Hay, grain and straw :—		
J. Cushing & Co.	104 76	
Horse, Henry S. Harris' Sons	150 00	
Horseshoeing, M. E. Crouse	42 86	
Hose, Edson Manufacturing Co.	90 45	
Lumber, Buttrick Lumber Co.	9 91	
Mason work, James E. Burke	53 24	
Painting, Thos W. Scott	15 00	
Plumbing, Arthur L. Hersum	28 31	
Professional services :—		
Allen Greenwood, M. D.	160 00	
Sign, May & Freeman	1 50	
Skiff, E. Gerry Emmons Corporation	32 05	
Stone and teaming :—		
Geo. H. D Lamson	11 25	
Amounts carried forward	$2,063 41	$3,000 00

Municipal Enterprises — Continued.

WATER DEPARTMENT — Continued.

MAINTENANCE, STONY BROOK RESERVOIR — Concluded.

Amounts brought forward . .	$2,063 41	$3,000 00
For telephone service	95 80	
Transportation, Boston&Maine R.R.	5 50	
Veterinary, W.D. Peterson, M.D.V.	12 00	
Wagon repairs, Thomas Evans .	4 50	
Water rates, City of Waltham .	14 00	
Total		2,195 21
Surplus of appropriation		$804 79
Transfer from this account		800 00
Balance relinquished to General Treasury . . .		$4 79

RENT.

Appropriation		$1,200 00
EXPENDED.		
For rent, City of Cambridge . .	$1,200 00	
Total		1,200 00

ICE FOR FOUNTAINS.

Appropriation		$500 00
EXPENDED.		
For ice: —		
Cambridge Ice Co.	$118 95	
Fresh Pond Ice Co. . .	239 79	
Independent Ice Co. . . .	125 55	
Total		484 29
Surplus of appropriation relinquished to General Treasury		$15 71

REFUNDS.

Appropriation		$3,500 00
EXPENDED.		
For refunds, per registrar's certificates	$1,879 07	
Total		1,879 07
Surplus of appropriation relinquished to General Treasury		$1.620 93

Municipal Enterprises — Concluded.

WATER DEPARTMENT — Concluded.

ABATEMENTS.

Appropriation	$4,000 00

EXPENDED.

For abatements, per registrar's certificates	$2,885 33	
Total		2,885 33
Surplus of appropriation relinquished to General Treasury		$1,114 67

CAMBRIDGE WATER WORKS.

In account with the City of Cambridge for the year ending November 30, 1905.

RECEIPTS AND EXPENDITURES.

Receipts for the year, Construction Accounts	$299,851 74	Expended for:— Construction Accounts	$251,232 57
		Deficit from 1904 Accounts	7,059 28
		Balance to credit of 1905 Account	41,559 89
	$299,851 74		$299,851 74
Balance to the credit of Maintenance Accounts, Dec. 1, 1904	$3,176 40	Expended for:— Maintenance	$103,043 80
Receipts for the year:—		Interest	135,506 50
Rates	348,640 11	Sinking Fund	121,522 50
Miscellaneous	5,457 79	Abatements and Refunds	4,764 40
Accrued Interest	1,085 97		
Deficit in 1905 Account	6,476 93		
	$364,837 20		$364,837 20

SCHEDULE A-VIII

APPROPRIATIONS AND EXPENDITURES

No. 6

PUBLIC EDUCATION, LIBRARIES, ETC.

6. PUBLIC EDUCATION, LIBRARIES, ETC.

SCHOOLS. (6.1)

SALARIES OF JANITORS AND OTHERS.

Appropriation		$37,500 00
EXPENDED.		
For salaries of janitors and other employees	$37,459 55	
Total		$37,459 55
Surplus of appropriation relinquished to General Treasury		$40 45

GENERAL EXPENSES.

Appropriation		$50,000 00
DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.		
For damage to Stearns School House	$14 00	
Refund on bill	127 05	
Sale of old material	40 00	
	$181 05	
EXPENDED.		
For advertising, Cambridge Chronicle	$6 75	
Fuel: —		
Consumers' Coal Co.	$2,515 68	
P. F. Gayton & Co.	230 00	
Mass. Wharf Coal Co.	9,625 85	
Metropolitan Coal Co.	18,464 06	
Frank A. Teele	85 04	
Weighing: —		
Chas. F. Long	88 80	
P. J. White	20 25	
Teaming, Jeremiah Sullivan	14 00	
	31,043 68	
Lighting: —		
Cambridge Electric Light Co.	$1,806 27	
Cambridge Gas Light Co.	576 00	
	2,382 27	
Services as constable: —		
James E. Lennon	6 00	
Use of horse and carriage: —		
T. W Hillier & Co.	176 00	
Amounts carried forward	$33,614 70	$50,000 00

Public Education, Libraries, Etc. — Continued.

SCHOOLS, GENERAL EXPENSES—Continued.

Amounts brought forward		$33,614 70	$50,000 00
For repairs and alterations: —			
Carpentry: —			
C. H. Callahan & Son	$101 70		
Wm. H. Chaplin	9 45		
D. K. Dinsmore	201 53		
W. Fillmore Co	301 57		
F. B. Furbish	497 70		
S. J. Kelley & Son	288 32		
Frank L. Leydon	665 37		
C. Mahoney	233 91		
C. S. Newcomb	55 34		
W. H. Norris	14 50		
Thomas O'Neil	65 57		
Thomas Powers	99 71		
John Quin & Son	360 34		
		2,895 01	
Expressage and moving furniture: —			
P. Biggin	$113 00		
Frank D. Kenney	41 00		
Wm. P. Purcell	150 40		
		304 40	
Fences and repairs: —			
Wm. H. Chaplin	$22 70		
P. J. Dinn & Co.	90 00		
S. E. Jeffery	30 38		
C. Mahoney	130 00		
		273 08	
Granolithic curbing and walks: —			
Simpson Bros. Corporation		302 36	
Heating and ventilating repairs: —			
Brock Bros	$450 85		
Brock & Eaton	143 19		
S. D. Fallon	16 00		
F. W. Foster Manufacturing Co.	5 25		
T. W. Good	11 10		
Greene & Co.	79 23		
Higgins & Co.	13 30		
Huey Bros.	8 58		
D. J. Keefe & Co.	25 12		
Lubron Manufacturing Co.	11 50		
Chas. H. Millner	37 62		
Moynahan & Co.	495 52		
Wm. H. O'Leary	41 60		
A. H. Ricker	39 98		
Roberts Iron Works Co.	430 78		
W. J. Rounds	123 33		
Star Brass Manufacturing Co.	1 50		
		1,934 45	
Inspection of boilers, S. C. Baxter		108 00	
Amounts carried forward		$39,432 00	$50,000 00

Public Education, Libraries, Etc. — Continued.

SCHOOLS, GENERAL EXPENSES—Continued.

Amounts brought forward		$39,432 00	$50,000 00
For lighting apparatus and electrical work :—			
F. Bryant & Co.	$170 30		
Clark & Mills Electric Co.	140 90		
Geo. F. Dickson	21 48		
T. J. Daly	547 12		
Electric Gas Lighting Co.	20 64		
B. E. McDermott & Co.	49 50		
Warren W. Scott	55 60		
		1,005 54	
Mason work : —			
John B. Byrne	$285 59		
John Delaney	217 02		
Joseph M. Dolan	2 00		
Thomas Leahy & Son	31 00		
Henry McGahey	440 50		
J. D. McGillicuddy	13 00		
Walsh Bros.	88 15		
		1,077 26	
Painting, whitening, glazing, etc. :—			
C. P. Alberts	$105 53		
W. J. Edwards	537 59		
M. A. Feeley	661 00		
John M. Forrest	360 30		
J. Leo McDonald	504 80		
D. Mountain	424 67		
T. Murphy	33 60		
		2,627 49	
Plans and estimates : —			
M. C. Beedle	$20 00		
John B. Byrne	15 00		
Newhall & Blevins	40 00		
		75 00	
Plaster work : —			
Harrington & Howell	$215 00		
Wm. J. Heron	197 65		
		412 65	
Plumbing :—			
Arthur W. Balcom	$78 67		
Ernest W. Clark	64 44		
Chas. A. Fallon	95 95		
S. D. Fallon	137 00		
T. W. Good	300 06		
Chas. E. Hall & Co.	129 75		
Higgins & Co.	10 31		
D. J. Keefe & Co.	492 15		
A. H. Ricker	42 15		
H. L. Rose	164 31		
W. H. Sweeney	67 26		
		1,582 05	
Removing coal and pumping water from boiler pit :—			
John B. Byrne	$42 22		
Walsh Bros.	6 60		
		48 82	
Amounts carried forward		$46,260 81	$50,000 00

Public Education, Libraries, Etc. — Continued.

SCHOOLS, GENERAL EXPENSES — Continued.

Amounts brought forward		$46,260 81	$50,000 00
For roof and gutter repairs :—			
John J. Blevins	$295 55		
Howard F. Peak	360 02		
		655 57	
Services as watchman :—			
Wm. P. Purcell		98 50	
Slate work, Arthur W. Balcom		378 43	
Tablets :—			
Edw. T. P. Graham	$25 00		
Walsh Bros.	250 00		
		275 00	
Miscellaneous repairs :—			
Sundry persons		20 45	
Supplies :—			
Blackboards and repairs :—			
Chas. Bash	$152 00		
D A. Doherty	113 19		
H. H. Harding	66 18		
J. A. Swasey	70 00		
		401 37	
Clocks and repairs :—			
A. J. Applegate Co.	$8 50		
F. A. Colburn	15 50		
Simon Flaig	3 00		
Frank T. Gookin	12 50		
Wm. Humans	2 50		
Frank T. Kenney	11 50		
James A Rice	14 00		
Standard Electric Time Co.	17 00		
D. Zirngiebel, Jr.	28 60		
		113 10	
Dusters, brooms, brushes, etc. :—			
Boston Engineers' Supply Co.	$141 45		
Brock & Eaton	161 45		
Brock Bros.	32 00		
E. T. Bynner	241 00		
Experiment Station for the Blind	7 00		
		582 90	
Furniture, furnishings and repairs :—			
American School Furniture Co.	$124 89		
Boston Engineers' Supply Co.	47 73		
James Campbell	50 75		
Chandler Adjustable Chair and Desk Works	341 30		
L. Cohen	372 10		
James Grant & Co.	17 00		
Mrs. M. M Hogan	49 75		
Smith Bros	61 50		
Worcester Bros.	185 62		
Wm. H. Zirkel	168 75		
		1,419 39	
Amounts carried forward		$50,205 52	$50,000 00

Public Education, Libraries, Etc. — Continued.

SCHOOLS, GENERAL EXPENSES—Concluded.

Amounts brought forward . .		$50,205 52	$50,000 00
For hardware, tools and repairs, and supplies: —			
Boston Engineers' Supply Co. .	$208 14		
Boston Incandescent Lamp Co. .	52 00		
Brock Bros.	257 90		
Brock & Eaton	41 64		
E. T. Bynner	116 81		
Ernest W. Clark	14 90		
J. H. Corcoran & Co. . . .	32 92		
W. J. Edwards	49 10		
French, Mitchell, Woodbury Co.	11 50		
Edward Kendall & Sons . .	9 00		
T. H. Kneeland	16 50		
B. McDermott	9 00		
Morss & Whyte Co. . . .	10 05		
Pill Bros	13 88		
L. A. Stingel	22 54		
James H. Wyeth & Co. . .	138 37		
Sundry persons	20 19		
		1,024 44	
Oil, Standard Oil Co. . . .		13 05	
Sand, Jeremiah Sullivan . . .		69 00	
Sawdust, Geo. G. Page Box Co. .		47 25	
Teaming, Frank D. Kenney . .		13 00	
Toilet paper, Wm. H. Claflin & Co.		78 75	
Transfers: —			
Repairing gongs, Electrical Dept.	$8 25		
Stock and labor, Water Dept. .	3 08		
Water used, Water Dept. . .	8 10		
		19 43	
Total			51,470 44
Excess of expenditures over appropriation . . .			$1,470 44
Additional appropriation			1,500 00
Balance relinquished to General Treasury . . .			$29 56

SUMMARY. EXPENDED.

For fuel	$31,043 68
Lighting	2,382 27
Repairs	14,074 06
Supplies	3,762 25
Miscellaneous	208 18
Total	$51,470 44

Public Education, Libraries, Etc. — Continued.

SCHOOLS. (6.1)

HOUGHTON SCHOOLHOUSE.

Appropriation $91,688 25

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For insurance paid on account of loss $90 00

EXPENDED.

For advertising, Cambridge Chronicle		$40 25	
Artificial stone sidewalks :—			
Simpson Bros. Corporation . .		486 97	
Carpentry, W. Fillmore Co. . .		197 34	
Contracts :—			
Building, John B. Byrne . .		66,341 50	
Electrical work, Keough Bros. & Co.		419 50	
Heating and ventilating, Huey Bros.		6,296 00	
Plumbing, Higgins & Co. . .		3,689 50	
Plans and supervision :—			
Buerkel & Co.	$203 09		
Geo F. Fogerty	1,440 00		
Arthur J. O'Neil	30 00		
		1,673 09	
Installing boilers :—			
Roberts Iron Works Co. . .		1,840 00	
Fence, W. Fillmore Co . . .		273 00	
Fuel, Mass Wharf Coal Co. . .		345 18	
Furniture, furnishings, etc. :—			
Boston Engineers' Supply Co. .	$79 65		
Chandler Adjustable Chair and Desk Works	3,261 74		
John H. Pray & Sons Co. . .	23 75		
Warren W Scott	302 58		
Simplex Electric Heating Co. .	31 92		
Smith Bros	445 00		
Worcester Bros.	350 00		
		4,494 64	
Grading, seeding, etc. :—			
Jeremiah Sullivan		560 00	
Hardware :—			
Brock Bros.	$67 03		
E. T. Bynner	21 95		
J. B. Hunter & Co. . . .	470 50		
Sundry persons	4 67		
		564 15	
Amounts carried forward . . .		$87,221 12	$91,688 25

Public Education, Libraries, Etc. — Continued.

SCHOOLS, HOUGHTON SCHOOLHOUSE — Concluded.

Amounts brought forward . .		$87,221 12	$91,688 25
For iron fences, fire escapes, etc. :—			
P. J. Dinn & Co.		217 00	
Painting :—			
American Painting and Decorating Co.	$18 00		
J. M. Forrest	141 00		
		159 00	
Paving bricks, Parry Brick Co. .		48 10	
Paving, resetting curbing, etc. :—			
Sundry persons, as per pay-roll .		76 09	
Services in connection with taking of land :—			
W. G. Cutter & Sons . . .		50 00	
Services computing strength of beams and walls :—			
Edward S. Shaw		30 00	
Services of engineer, Buerkel & Co.		5 20	
Teaming :—			
Sundry persons, as per pay-roll .		8 75	
Total			87,815 26
Surplus of appropriation			$3,872 99
Revenue appropriated			90 00
			$3,962 99

SCHOOLS. (6.1)

KELLEY SCHOOLHOUSE.

Appropriation		$194 60
EXPENDED.		
For drain work, D. J. Keefe & Co. .	$61 92	
Transfer, Water used, Water Dept.	27 00	
Total		88 92
Surplus of appropriation relinquished to General Treasury		$105 68

Public Education, Librarles, Etc. — Continued.

SCHOOLS — Continued.

RINDGE MANUAL TRAINING SCHOOL.

ALTERATIONS.

Appropriation		$13,000 00
EXPENDED.		
For advertising, Cambridge Chronicle	$15 00	
Benches, Nelson F. Nice	6 00	
Contract for building:—		
John P. Delaney	11,358 00	
Electrical work, T. J. Daly	52 08	
Heating apparatus, Huey Bros.	427 00	
Plans, Geo. T. Tilden	567 90	
Plumbing, Herbert L. Rose	308 18	
Removing steam pipes, Brock Bros.	54 04	
Services as watchman, Wm. P. Purcell	127 50	
Total		12,915 70
Surplus of appropriation relinquished to General Treasury		$84 30

EQUIPMENT.

Appropriation		$7,000 00
EXPENDED.		
For apparatus and installing:—		
Braman, Dow & Co.	$15 76	
Brock & Eaton	202 31	
Burditt & Williams Co.	102 48	
Chandler & Barber	1,262 03	
Chandler & Farquhar Co.	420 12	
Dexter Bros. Co.	14 78	
A C. Ely	117 60	
W. Fillmore Co.	695 35	
Albert M. Fletcher	130 35	
Geo. W. Gale Lumber Co.	69 12	
R. H. Gallagher	71 80	
General Electric Co.	135 48	
Arthur C Harvey Co.	38 15	
L. E. Knott Apparatus Co.	238 97	
Geo. W. Macauley	313 25	
Edward R. Markman	4 00	
Morss & Whyte Co.	36 00	
Page Belting Co.	123 74	
F. E. Reed Co.	1,836 08	
Amounts carried forward	$5,827 37	$7,000 00

Public Education, Libraries, Etc. — Continued.

SCHOOLS, RINDGE MANUAL TRAINING SCHOOL EQUIPMENT—Concluded.

Amounts brought forward . .	$5,827 37		$7,000 00
For Chas. A. Schieren & Co. . .	126 54		
Francis L. Welch	99 90		
A. J. Wilkinson & Co. . . .	506 50		
		$6,560 31	
Teaming, P Biggin		75 00	
Total			6,635 31
Surplus of appropriation relinquished to General Treasury			$364 69

ROBERTS SCHOOLHOUSE ADDITION.

Appropriation	$20,950 00

EXPENDED.

For advertising, Cambridge Chronicle .		$18 00	
Alterations in sanitaries:—			
Edw. H. Marchant		1,998 00	
Cleaning schoolhouse:—			
Wm. G. Sheridan		25 70	
Contract for building, Rufus E. Lord		14,659 36	
Coping, Bigelow & Mabie . . .		49 00	
Electrical work, Thomas J. Daly .		205 72	
Furniture, furnishings and placing:—			
Chandler Adjustable Chair and Desk Works	$1,383 25		
W. Fillmore Co.	149 22		
Smith Bros.	93 00		
Worcester Bros.	61 00		
		1,686 47	
Gas fitting, T. W. Good . . .		142 80	
Hardware:—			
E. W. Clark	$155 16		
J. B. Hunter & Co.	61 75		
Sundry persons	3 65		
		220 56	
Insurance, Brooks & Conley . .		102 00	
Iron railing, etc., Morss & Whyte Co.		103 65	
Plans, Geo. A. Moore . . .		841 22	
Plastering, Wm. J. Heron . . .		90 00	
Plumbing, steam fitting, etc.:—			
T. W. Good		308 65	
Slate, Allen, Totman Co. . . .		54 36	
Varnishing, M. A. Feeley . . .		352 00	
Total			20,857 49
Surplus of appropriation relinquished to General Treasury			$92 51

Public Education, Libraries, Etc. — Continued.

SCHOOLS — Continued.

CARE OF TRUANTS.

Appropriation		$2,000 00
EXPENDED.		
For board: —		
Middlesex County Truant School	$1,866 01	
Transportation, Boston & Maine R. R.	20 25	
Services in transportation: —		
John Carmichael	2 00	
Total		1,888 26
Surplus of expenditures over appropriation		$111 74

FLAGS.

Appropriation		$100 00
EXPENDED.		
For halyards and repairing flags: —		
Henry A. Wheeler & Co.	$71 95	
Total		71 95
Surplus of appropriation relinquished to General Treasury		$28 05

INCIDENTALS.

Appropriation			$1,600 00
EXPENDED.			
For salaries of Secretary, S. B. Hubbard		$400 00	
Messenger, Wm. E. McAnaul		25 00	
Advertising: —			
Cambridge Chronicle	$3 75		
Cambridge Sentinel Publishing Co.	3 00		
Cambridge Tribune Co.	3 00		
Review Publishing Co.	7 00		
Times Publishing Co.	2 50		
		19 25	
Car tickets: —			
Boston Elevated Railway Co.		250 00	
Copying: —			
Mary A. Carmichael	$20 00		
Wm. H. Porter	15 00		
		35 00	
Amounts carried forward		$729 25	$1,600 00

Public Education, Libraries, Etc. — Continued.

SCHOOLS, INCIDENTALS — Concluded.

Amounts brought forward . .		$729 25	$1,600 00
For expenses of Sanders Theatre: —			
Harvard University . . .		27 95	
Music, Oliver Ditson Co. . . .		13 92	
Negatives and lantern slides: —			
Ralph Harris & Co. . . .		17 50	
Obtaining statistics, Lucian S. Cabot		6 00	
Postage, F. M. Small, Superintendent		74 60	
Printing: —			
Cambridge Chronicle . . .	$32 00		
J. A. Cummings Printing Co. .	147 24		
J. Frank Facey	11 00		
G. B. Lenfest	7 50		
Louis F. Weston	159 70		
		357 44	
Services with orchestra, Alex. J. Smith		4 00	
Services at graduation: —			
Austin K Jones		3 00	
Taking census: —			
S Willson Bailey	$60 00		
Geo. B. Caswell	30 00		
J. J. McCrehan	52 50		
Felix C. McBride	70 00		
Edwin G. McBride	57 50		
Geo. H. Munroe	55 00		
Chas. F. Oxford	25 00		
		350 00	
Typewriter repairs: —			
Yost Writing Machine Co. . .		2 50	
Total			1,586 16
Surplus of appropriation relinquished to General Treasury			$13 84

TEXT BOOKS AND SUPPLIES.

Appropriation	$20,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For sale of, and damage to, books	$594 96

EXPENDED.

For apparatus and supplies: —		
Adams, Cushing & Foster . .	$1,676 37	
Barbour-Stockwell Co. . . .	217 45	
Selma E. Berthold	12 18	
Amounts carried forward . . .	$1,906 00	$20,000 00

Public Education, Libraries, Etc. — Continued.

SCHOOLS, TEXT BOOKS AND SUPPLIES — Continued.

Amounts brought forward . .	$1,906 00		$20,000 00
For Billings & Stover	3 50		
Brown, Durrell Co. . . .	155 14		
Brown-Wales Co.	8 99		
Burditt & Williams Co. . . .	218 41		
Milton Bradley Co. . . .	164 38		
Chandler & Barber	15 44		
Chandler & Farquhar . . .	20 40		
Cook-Vivian Co	5,615 79		
Frank Creighton	13 00		
Louis W. Cutting Co. . . .	60		
Davidson Rubber Co. . . .	44 70		
Dean, Foster & Co. . . .	7 68		
Dexter Bros. Co.	127 86		
Diamond Paste Co. . . .	47 60		
Dodge, Haley Co.	64 53		
Dover Stamping & Manufacturing Co.	21 73		
Farley, Harvey & Co. . . .	24 98		
Mrs. D. A. Fraser	5 00		
Frost & Adams Co. . . .	95 10		
Geo. W. Gale Lumber Co. . .	869 70		
Globe Stamp Works . .	30		
Arthur W. Hall Scientific Co. .	47 50		
Edgar Hall	7 70		
Arthur C. Harvey	251 97		
D. C. Heath & Co.	5 76		
J. A. Holmes & Co. . . .	3 25		
Holtzer-Cabot Electrical Co. .	53		
Hopkinson & Holden . . .	18 80		
John A. Hubbard	12 96		
Wm B. Hunt & Co. . . .	2 19		
Jordan, Marsh Co	20 41		
L. E Knott Apparatus Co . .	251 53		
Lamb Knitting Machine Co. . .	14 76		
Lord & Merrow	67 60		
Alexander Millan	4 00		
Neostyle Co	3 00		
Page Belting Co.	3 21		
Place Box Co	10 75		
The Scarborough Co. . . .	65 50		
Emma A. Scudder	2 48		
Singer Sewing Machine Co. . .	126 00		
Standard Turning Works . .	9 70		
Wadsworth, Howland & Co. . .	315 55		
A. J. Wilkinson & Co . . .	170 42		
		$10,846 40	
Books: —			
J. Q. Adams & Co.	$7 50		
Allyn & Bacon	362 32		
American Book Co. . .	2,448 70		
D. Appleton & Co.	24 80		
Atkinson, Mentzer & Grover . .	12 50		
Edw E. Babb & Co. . . .	270 95		
Amounts carried forward . . .	$3,126 77	$10,846 40	$20,000 00

Public Education, Libraries, Etc. — Continued.

SCHOOLS, TEXT BOOKS AND SUPPLIES — Continued.

Amounts brought forward	$3,126 77	$10,846 40	$20,000 00
For T. H. Castor & Co.	99 69		
De Wolfe, Fiske & Co	7 20		
Oliver Ditson Co.	4 00		
Ginn & Co.	1,825 59		
Herman Goldberger	27 20		
Gregg Publishing Co	155 20		
D. C. Heath & Co.	295 05		
Hinds, Noble & Eldredge	45 60		
Houghton, Mifflin & Co.	401 77		
Longmans, Green & Co.	84 00		
G. & C. Merriam Co.	102 00		
Benj H. Sanborn & Co.	328 21		
Sibley & Co.	4 37		
Silver, Burdett & Co.	515 58		
Thompson, Brown & Co.	1,865 96		
University Publishing Co.	172 92		
William Ware & Co.	63 75		
		9,124 86	
Binding, J. H. H. McNamee Co.		426 27	
Car tickets :—			
Boston Elevated Railway Co.		25 00	
Cash paid to life model in Freehand school :—			
Peter Roos		29 30	
Diplomas and engrossing :—			
Boston Bank Note Co.		223 51	
Expressage and teaming :—			
American Express Co.	$0 60		
Bancroft's Express	11 18		
H. W. Bettinson & Co.	15 85		
P. Biggin	291 70		
W. A. Nichols	61 35		
Sawin's Express	46 98		
		427 66	
Fuel : —			
Coleman Bros.	$107 00		
P. F. Gayton & Co.	1 50		
		108 50	
Ice, Fresh Pond Ice Co.		1 65	
Pianos : —			
Henry F. Miller & Sons Piano Co.		475 00	
Piano covers, E. M. Cundall & Son		7 75	
Postage, F. M. Small, Supt.		167 20	
Printing : —			
J. A. Cummings Printing Co.	$15 00		
J. Frank Facey	55 00		
G. B. Lenfest	14 50		
Monk & Bordley	29 50		
Louis F. Weston	59 75		
		173 75	
Amounts carried forward		$22,036 85	$20,000 00

Public Education, Libraries, Etc. — Continued.

SCHOOLS, TEXT BOOKS AND SUPPLIES — Concluded.

Amounts brought forward		$22,036 85	$20,000 00
For tuning pianos :—			
Briggs & Briggs	$22 00		
Chickering & Sons	25 00		
		47 00	
Washing, Catherine Flynn		15 48	
Total			22,099 33
Excess of expenditures over appropriation			$2,099 33
Additional appropriation			2,100 00
Balance relinquished to General Treasury			67

TRANSPORTATION OF PUPILS.

Appropriation	$350 00

EXPENDED.

For conveying pupils, Timothy J. Shine	$368 00	
Total		368 00
Excess of expenditures over appropriation		$18 00
Additional appropriation		82 00
Balance relinquished to General Treasury		$64 00

SALARIES OF TEACHERS AND OFFICERS.

Appropriation	$370,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For tuition :—		
Commonwealth of Mass.	$811 00	
City of Boston	53 50	
President and Fellows of Harvard College	2,288 00	
Non-resident pupils	3,313 50	
	$6,466 00	

EXPENDED.

For salaries of Superintendents :—			
Francis Cogswell	$2,450 00		
William C. Bates	1,050 00		
		$3,500 00	
Agent, Sanford B. Hubbard		2,100 00	
Clerks :—			
Althea B. Frost	$759 00		
Sadie E. Kimball	600 00		
		1,359 00	
Amounts carried forward		$6,959 00	$370,000 00

Public Education, Libraries, Etc. — Continued.

SCHOOLS, SALARIES OF TEACHERS AND OFFICERS — Concluded.

Amounts brought forward			$6,959 00	$370,000 00
For special instructors :—				
Botany, Sarah E Brassil		$1,000 00		
Drawing :—				
Peter R os	$1,986 67			
Lucia N Jennison	792 00			
		2,778 67		
Gymnastics :—				
Sarah E. Boudren	$950 00			
Bessie W. Howard	811 00			
		1,761 00		
Music : —				
Frederick E. Chapman	$2,000 00			
Georgia E Martin	850 00			
		2,850 00		
Sewing :—				
Agnes Gordon	$698 25			
Alice H. Nay	597 09			
Mary T. Dawe	594 50			
		1,889 75		
			10,279 42	
Primary supervisor, Mary A. Lewis			1,300 00	
Salaries of teachers in :—				
Latin School		$26,711 51		
English High School		26,359 41		
Rindge Manual Training School		26,487 00		
Grammar Schools		133,558 75		
Primary Schools		92,696 70		
Kindergarten Schools		19,371 96		
Wellington Training School		14,796 39		
Substitutes		2,728 25		
Teachers unassigned		450 00		
Ungraded School		120 00		
			$343,279 97	
Salaries of teachers in evening schools :—				
Drawing, freehand		$443 00		
Drawing, mechanical		1,048 00		
High		1,709 00		
Putnam		2,497 00		
Roberts		2,106 00		
Shepard		996 00		
Webster		837 00		
Rindge Manual Training School		180 00		
			9,816 00	
Truant officers			4,000 00	
Porter, John H. Lemon			630 00	
Total				376,264 39
Excess of expenditures over appropriation				$6,264 39
Additional appropriation				7,400 00
Balance relinquished to General Treasury				$1,135 61

Public Education, Libraries, Etc. — Continued.

SCHOOLS — Concluded.

VACATION SCHOOLS.

Appropriation			$2,000 00
EXPENDED.			
For salaries of janitors		$160 00	
Salaries of teachers		1,335 00	
Apparatus and supplies: —			
Adams, Cushing & Foster	$10 12		
Milton, Bradley Co.	35 14		
Cook-Vivian Co.	12 26		
Geo. W. Gale Lumber Co.	37 11		
Lord & Merrow	25 34		
Wadsworth, Howland & Co.	26 97		
		146 94	
Cash expended for car fares: —			
Francis L. Bain		3 75	
Printing: —			
J. Frank Facey	$22 00		
Louis F. Weston	9 25		
		31 25	
Washing, Hannah O'Brien		2 70	
Total			1,679 64
Surplus of appropriation relinquished to General Treasury			$320 36

LIBRARIES. (6.2)

MAIN LIBRARY, SALARIES.

Appropriation			$9,700 00
EXPENDED.			
For salaries of: —			
Librarian, Clarence W. Ayer		$2,000 00	
Assistants: —			
Etta L. Russell	$1,000 00		
L. Edna Brooks	476 44		
Ellen M. Hayes	461 28		
Harriet D. Lochman	653 10		
Alice O'Brien	503 00		
Katherine A. O'Donnell	434 58		
Winifred B. Smith	688 25		
Charlotte E. Stewart	595 00		
Alfred E. Thayer	559 32		
Sundry persons	1,122 04		
		6,493 01	
Janitor, Thomas M. Thomas	$1,186 07		
Substitute, B. D. Hawkins	20 00		
		1,206 07	
Total			9,699 08
Surplus of appropriation relinquished to General Treasury			92

Public Education, Libraries, Etc. — Continued.

LIBRARIES — Continued.

MAIN LIBRARY, GENERAL EXPENSES.

Appropriation $11,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For fines, sale of catalogs, etc. $725 85

EXPENDED.

For assessment, Library Art Club			$5 00
Baskets, Hopkinson & Holden			10 00
Binding and binders: —			
Boston Bookbinding Co.	$35 60		
J. H. H. McNamee Co.	938 07		
		973 67	
Books, periodicals, etc.: —			
Wm. Abbott	$5 00		
A. L. A. Publishing Board	5 81		
D. Appleton & Co.	39 92		
Amee Bros.	113 97		
American Book Co	96 20		
Edward E. Babb & Co.	36 92		
Balch Bros. Co.	2 20		
B. F. Buck & Co.	4 35		
T. H. Castor & Co.	15 23		
Dana, Estes & Co.	42 75		
Desmond Publishing Co.	43 00		
Educational Publishing Co.	98 60		
Funk & Wagnalls Co.	24 00		
Ginn & Co.	86 10		
Herman Goldberger	560 42		
Good Government	4 00		
C. S. Hammond & Co.	15 00		
D. C. Heath & Co	28 18		
C. A. Koehler & Co.	9 40		
Little, Brown & Co.	3,048 86		
Mass. Historical Society	9 00		
Moulton Publishing Co.	5 00		
Old Corner Book Store	1,497 33		
Silver, Burdett & Co.	90 68		
Geo. H. Walker & Co.	12 50		
H. W. Wilson Co.	20 00		
Sundry persons	11 00		
		5,925 42	
Book plates, Boston Bank Note Co.		10 15	
Book service: —			
The Booklovers' Library		10 00	
Delivery of books, Gilbert Davoren		492 75	
Directories: —			
W. A. Greenough & Co.	$11 50		
Edward A. Jones	1 50		
Sampson & Murdock Co.	6 00		
		19 00	
Dues, National Education Ass'n		2 00	
Amounts carried forward		$7,447 99	$11,000 00

Public Education, Libraries, Etc. — Continued.

MAIN LIBRARY, GENERAL EXPENSES — Continued.

Amounts brought forward		$7,447 99	$11,000 00
For expressage: —			
Sawin's Express	$33 70		
Sundry persons	4 10		
		37 80	
Fuel: —			
Mass. Wharf Coal Co.	$167 10		
Metropolitan Coal Co.	493 00		
Frank A. Teele	1 94		
		662 04	
Furniture, furnishings and repairs: —			
Globe-Wernicke Co.	$20 94		
John H. Kelsey	22 95		
Library Bureau	7 50		
J. T. Morris	5 20		
Daniel Pratts's Son	4 75		
John Quin & Son	50 00		
Worcester Bros.	21 40		
Sundry persons	4 45		
		137 19	
Hardware, tools and supplies: —			
Brock & Eaton	$88 47		
G. W. Burditt	13 50		
India Alkali Works	5 00		
Parke Snow	4 42		
Sundry persons	5 50		
		116 89	
Ice, Fresh Pond Ice Co.		6 23	
Inspecting boilers, S. C. Baxter		10 00	
Lighting: —			
Cambridge Electric Light Co.	$452 77		
Cambridge Gas Light Co.	413 30		
		866 07	
Local stations: —			
Conley Drug Store	$6 00		
Marcellus I. Dow	48 00		
Ezra C. Gove	48 00		
James W. Hunnewell	60 00		
A. W. Kidder	6 00		
C. S. Lombard	36 00		
Albert E. Lynch	27 00		
Thomas K Martin	45 00		
Wm. H. Murphy	36 00		
Chas. L. Nelson	36 00		
Maurice O'Donnell & Co.	18 00		
Joseph F. O'Donnell	9 00		
Carrie Ellsworth Phillips	36 00		
St. Paul's Social Settlement	27 00		
P. A. Yerxa	36 00		
		474 00	
Amounts carried forward		$9,758 21	$11,000 00

Public Education, Libraries, Etc. — Continued

MAIN LIBRARY, GENERAL EXPENSES — Concluded.

Amounts brought forward . .		$9,758 21	$11,000 00
For repairs to building: —			
Heating apparatus repairs, Greene & Co.	$63 82		
Putting up storm windows, B. D. Hawkins	5 95		
Weather strips, Frank H. Leach .	4 45		
		74 22	
Stamps, Estate of H. C. Dimond & Co.		10 95	
Stationery, printing and typewriter supplies: —			
Amee Bros.	$35 21		
Caustic-Claflin Co.	63 70		
J. A. Cummings Printing Co. .	18 72		
J. Frank Facey	2 00		
Hammond Typewriter Co. . .	7 00		
Hooper, Lewis & Co. . . .	63 50		
Librarian of Congress . . .	50 00		
Library Bureau	21 25		
Monk & Bordley	436 25		
Edward W. Wheeler . . .	247 03		
Yawman & Erbe Manufacturing Co.	13 00		
		957 66	
Sundries		9 95	
Telephone service		70 02	
Typewriter and repairs: —			
Hammond Typewriter Co. . .		69 11	
Vulite, F. H. Griffin & Co. . .		8 00	
Washing, Thomas M Thomas . .		14 19	
Wooden dummies, Library Bureau .		27 00	
Total			10,999 31
Surplus of appropriation relinquished to General Treasury			69

EAST CAMBRIDGE BRANCH.

SALARIES.

Appropriation		$880 00
EXPENDED.		
For salaries of: —		
Librarian, Mary Curtis . . .	$600 00	
Assistant, Daniel F. Burke . .	60 10	
Janitor, J. J. McCarthy . . .	182 50	
Substitute, John J. Sullivan . .	7 00	
Total		849 60
Surplus of appropriation		$30 40
Transfer from this account to General Expenses .		30 00
Balance relinquished to General Treasury . . .		40

Public Education, Libraries, Etc. — Continued.

LIBRARIES — Concluded.

EAST CAMBRIDGE BRANCH, GENERAL EXPENSES.

Appropriation			$1,000 00
	EXPENDED.		
For assessment, Library Art Club		$5 00	
Binding and binders: —			
Boston Bookbinding Co.	$1 65		
J. H. H McNamee Co.	90 02		
		91 67	
Books, periodicals, etc.: —			
Amee Bros	$24 25		
D. Appleton & Co.	6 66		
Educational Publishing Co.	15 40		
Herman Goldberger	81 90		
Little, Brown & Co.	213 20		
Old Corner Book Store	317 43		
The Outlook	72 00		
Sundry persons	4 28		
		735 12	
Carpentry, C. Mahoney		2 20	
Directory, W. A. Greenough & Co.		3 50	
Furniture, furnishings and repairs: —			
James Grant & Co.	$9 25		
Sundry persons	1 35		
		10 60	
Hardware and supplies: —			
Parke Snow	$1 58		
L. A. Stingel	26 55		
		28 13	
Lighting, Cambridge Gas Light Co.		98 40	
Stationery and printing: —			
Amee Bros.	$4 00		
Edw. W. Wheeler	47 50		
		51 50	
Sundries		2 61	
Transfer, Repairs, Electrical Dept.		1 05	
Total			1,029 78
Excess of expenditures over appropriation			$29 78
Transfer to this account from Salaries			30 00
Balance relinquished to General Treasury			22

SCHEDULE A-VIII

APPROPRIATIONS AND EXPENDITURES

No. 7

PUBLIC RECREATION

7. PUBLIC RECREATION.

PARKS. (7.2)

PARK DEPARTMENT, CONSTRUCTION.

Appropriation		$40,423 87

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For rents	$1,937 60
Sand	2 25
	$1,939 85

EXPENDED.

GENERAL ACCOUNT.

For salary of General Supt. of Parks :—			
James A. Montgomery			$1,500 00
Bicycle repairs : —			
E. H. McDuffee	$10 00		
J. L. Moseley	87		
Geo. F. Schwartz Co.	1 50		
			12 37
Car tickets : —			
Boston Elevated Railway Co.			200 00
Carriage repairs, G. M. DeWolf			3 50
Cart, Ames Plow Co.			60 00
Difference in exchange of wagons : —			
Stephen J. Moran			80 00
Expressage : —			
Jas. A. Montgomery	$1 50		
Sawin's Express	50		
			2 00
Fence, Morss & Whyte Co.			519 00
Hardware, tools and repairs, and supplies : —			
Boston Engineers' Supply Co.	$24 00		
E. T. Bynner	25 78		
Boston Woven Hose & Rubber Co.	9 63		
Wm. Elliott & Co.	3 00		
Fay Bros.	7 87		
Frost & Adams Co.	9 00		
Geo. F. Schwartz Co.	2 84		
E. S. Thayer & Co.	8 23		
			90 35
Harness and repairs, and horse clothing : —			
M. Cavanagh	$25 00		
Hugh McCaffrey	14 75		
			39 75
Amounts carried forward		$2,506 97	$40,423 87

Public Recreation — Continued.

PARK DEPARTMENT, CONSTRUCTION—Continued.

Amounts brought forward . .	$2,506 97		$40,423 87
For hay, grain, etc.: —			
Robert Fawcett . . $185 21			
Eclipse Animal Food Co. 5 00			
John E. Ryan . . . 27 87			
	218 08		
Horse, L. H. Brockway & Co. . .	200 00		
Horse clipping, Ferris & Co. . .	3 00		
Horseshoeing: —			
M. D. Coyne . . . $80 75			
John Ryan . . . 4 00			
	84 75		
Lumber: —			
E. B. James Lumber Co. $25 46			
Geo. H. Jennings . . 27 00			
John Quin & Son . . 7 53			
	59 99		
New floors in stable, Patterson & Fox	58 72		
Pay rolls, laborers	789 00		
Rent of stable and yard: —			
Minnie G. del Castillo . . .	270 00		
Sod, H. P. French . . .	8 85		
Stationery, printing, etc.: —			
J. A. Cummings Printing Co. $153 15			
J. Frank Facey . . 5 50			
	158 65		
Transfer, Water rates, Water Dept.	11 50		
Use of horse and sleigh: —			
Soden Street Stable . . .	286 00		
		4,655 51	
OFFICE.			
For salaries of clerks: —			
Grace E. Hixon . . $270 00			
Rose E. Manning . . 393 34			
	663 34		
Cotton cloth, J. H. Corcoran & Co. .	44		
Directory, W. A. Greenough & Co. .	3 50		
Electrical supplies, Thos. J Daly .	75		
Flower boxes, W. H. Norris . .	3 60		
Stationery, printing and office supplies: —			
Cambridge Chronicle . $14 50			
Cotton & Gould . . 26 50			
Estate of H. C. Dimond & Co. . . . 4 80			
J. Frank Facey . . 26 50			
	72 30		
Amounts carried forward . . .	$743 93	$4,655 51	$40,423 87

Public Recreation — Continued.

PARK DEPARTMENT, CONSTRUCTION—Continued.

Amounts brought forward . .	$743 93	$4,655 51	$40,423 87
For subscription:—			
Municipal Journal Publishing Co.	2 00		
Telephone service	129 06		
Transfers:—			
Electrical work, Electrical Dept. . . . $1 65			
Supplies, Postage and Stationery Account . 85 53			
	87 18		
		962 17	
NURSERY.			
For fuel, Metropolitan Coal Co. . .	$6 40		
Pay-rolls, laborers	816 00		
		822 40	
RIVER DRIVEWAY.			
Section A.			
For filling, as per pay-rolls . . .	$802 17		
Pay-rolls:—			
Laborers . . $5,234 50			
Engineers . . . 140 25			
	5,374 75		
Stakes, John Quin & Son . . .	10 00		
Tools, John T. Hourihan . . .	29 50		
Teaming, as per pay-rolls . . .	87 38		
Use of man and horses on watering cart:—			
Mrs. Bridget Sullivan . . .	85 00		
		6,388 80	
Section B.			
For filling, as per pay-rolls . . .	$22 82		
Hardware, tools and supplies:—			
Jos. Breck & Sons, Corp'n $15 70			
E. T. Bynner . . . 72			
James Maitland . . 56			
	16 98		
Pay-rolls:—			
Laborers . . . $3,094 75			
Engineers 33 00			
	3,127 75		
Teaming, as per pay-rolls . . .	72 50		
Transfers:—			
Water rates, Water Dep't $2 00			
Repairs, Water Dep't . 7 92			
	9 92		
Use of men and horses on watering cart:—			
Cornelius J. Sullivan . . .	59 50		
		3,309 47	
Amounts carried forward . . .		$16,138 35	$40,423 87

Public Recreation — Continued.

PARK DEPARTMENT, CONSTRUCTION — Continued.

Amounts brought forward . .		$16,138 35	$40,423 87
Section C.			
For filling, as per pay-rolls . . .	$476 61		
Hardware, E. T. Bynner . . .	1 20		
Pay-rolls :—			
Laborers . . . $1,043 75			
Engineers . . 299 76			
	1,343 51		
Use of men and horses on watering cart :—			
Cornelius J. Sullivan . . .	59 50		
		1,880 82	
Section D.			
For building lockers, Patterson & Fox .	$271 63		
Clock, E. J. Dunphy . .	25 00		
Filling, as per pay-rolls . . .	6,643 52		
Fuel, Metropolitan Coal Co . .	3 20		
Hardware and supplies :—			
Jos. Breck & Sons . . $16 10			
E. T. Bynner . . . 36 80			
Duff Spring Co. . . 12 00			
Moynahan & Co. . . 25			
	65 15		
Lighting, Camb. Elec Light Co. .	186 22		
Lumber :—			
Geo W. Gale Lumber Co. $17 80			
John Quin & Son . . 10 25			
	28 05		
Pay-rolls :—			
Laborers . . $4,810 09			
Engineers . . . 827 75			
	5,637 84		
Paint, Wadsworth, Howland & Co. .	55 00		
Stone dust, Coleman Bros. . .	48 35		
Stove and pipe, J. A. Hunter . .	7 00		
Teaming, as per pay-rolls . . .	210 00		
Transfer, Water rates, Water Dept.	1 00		
Use of man and horses on watering cart :—			
Mrs. Bridget Sullivan . . .	85 00		
Wheelbarrow, John T. Hourihan .	48 00		
		13,314 96	
Section F.			
For bicycle repairs, E. H. McDuffee .	$8 75		
Carpentry, John C. McGirr . .	84 04		
Filling, as per pay-rolls . . .	1,765 82		
Amounts carried forward . . .	$1,858 61	$31,334 13	$40,423 87

Public Recreation — Continued.

PARK DEPARTMENT, CONSTRUCTION—Concluded.

Amounts brought forward . .	$1,858 61	$31,334 13	$40,423 87
For hardware:—			
E. T. Bynner . . . $0 50			
Wm. Elliott & Co. . . 1 50			
	2 00		
Insurance on boat-house:—			
T. H. Raymond .	360 00		
Pay-rolls:—			
Laborers . $3,367 00			
Engineers . . . 101 75			
	3,468 75		
Sods, P J. Curley	49 59		
Teaming, as per pay-rolls . . .	61 25		
Use of men and horses:—			
Mrs. Bridget Sullivan . . .	85 00		
		5,885 20	
Total			37,219 33
Surplus of appropriation relinquished to General Treasury			$3,204 54

PLAYGROUND, EAST CAMBRIDGE.

Appropriation	$15,000 00

EXPENDED.

For ballast, Barry F. St. George . .	$52 20		
Estate of Chas. Linehan . .	187 95		
John T. Scully & Bro. . . .	308 10		
		548 25	
Bicycle repairs:—			
E. H. McDuffee	$6 00		
Peter Powell	1 00		
		7 00	
Filling, as per pay-rolls . . .		875 86	
Hardware, tools and repairs, and supplies:—			
American Net & Twine Co. . .	$0 95		
John T. Hourihan . . .	218 65		
James Maitland	10 47		
Pill Bros.	1 95		
		232 02	
Lumber:—			
Geo W. Gale Lumber Co. . .	$1 37		
John Quin & Son	55 00		
		56 37	
Amounts carried forward . . .		$1,719 50	$15,000 00

Public Recreation — Continued.

PARK DEPARTMENT, CONSTRUCTION, PLAYGROUND, EAST CAMBRIDGE — Concluded.

Amounts brought forward		$1,719 50	$15,000 00
For pay-rolls: —			
Laborers	$9,589 75		
Engineers	197 99		
		9,787 74	
Teaming, as per pay-roll		893 76	
Total			12,401 00
Surplus of appropriation relinquished to General Treasury			$2,599 00

RINDGE FIELD GRADING.

Appropriation			$1,000 00
EXPENDED.			
For pay-rolls: —			
Laborers	$824 84		
Engineers	22 00		
		$846 84	
Total			846 84
Surplus of appropriation relinquished to General Treasury			$153 16

PARK DEPARTMENT, MAINTENANCE.

BROWN-TAIL MOTH EXTERMINATION.

Appropriation			$6,000 00
DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.			
For removing nests of brown-tail moth	$1,336 65		
EXPENDED.			
For bicycle repairs, E. H. McDuffee		$1 00	
Carpentry, W. H. Norris		17 48	
Carriage hire, Soden St. Stable		35 00	
Creosote: —			
Samuel Cabot	$68 90		
Winchester's Tar Disinfectant Co.	328 15		
		397 05	
Dinners, Mansion House		33 10	
Disparene, Bowker Insecticide Co.		105 00	
Expressage, sundry persons		4 15	
Amounts carried forward		$592 78	$6,000 00

Public Recreation — Continued.

PARK DEPARTMENT, MAINTENANCE, BROWN-TAIL MOTH EXTERMINATION — Concluded.

Amounts brought forward		$592 78	$6,000 00
For hardware, tools and supplies: —			
E T Bynner	$66 34		
Sundry persons	1 87		
		68 21	
Labor, as per pay-roll		10,493 21	
Ladders, hooks, etc.: —			
C. W. H. Moulton & Co.		60 60	
Oil, J. A. Holmes & Co.		5 50	
Printing, J. Frank Facey		32 50	
Spraying pump: —			
Bowker Insecticide Co.		65 00	
Tanglefoot, A. S. Lovejoy & Co.		6 25	
Total			11,324 05
Excess of expenditures over appropriation			$5,324 05
Additional appropriation		$4,000 00	
Transfer to this account from Contingent Fund		2,000 00	
			6,000 00
Balance relinquished to General Treasury			$675 95

CAMBRIDGE FIELD AND SHELTER.

Appropriation	$6,000 00

Department Receipts Carried to General Treasury.

For use of shower baths	$32 06

EXPENDED.

Cambridge Field.

For filling, as per pay-roll		$52 40	
Hardware, tools and supplies: —			
Barbour-Stockwell Co.	$5 20		
E T. Bynner	10 50		
Pill Bros.	47 44		
		$63 14	
Labor, as per pay-roll		2,408 25	
Lighting, Camb. Electric Light Co.		672 00	
Repairing fountain, T. W. Good		5 00	
Teaming, as per pay-roll		21 00	
			3,221 79
Amounts carried forward		$3,221 79	$6,000 00

Public Recreation — Continued.

PARK DEPARTMENT, CAMBRIDGE FIELD AND SHELTER—Concluded.

Amounts brought forward . .		$3,221 79	$6,000 00

THE SHELTER

For salaries of :—			
Supt , John Good . .	$954 00		
Matron, Ellen Reardon .	538 00		
Cleaner, Dennis Kelley .	124 00		
		$1,616 00	
Carpentry, John C. McGirr . .		52 00	
Electric wiring, ventilator repairs and plumbing :—			
Moynahan & Co.		464 05	
Fuel, Charles Linehan Estate . .		150 00	
Hardware, tools and supplies :—			
E T Bynner . . .	$4 85		
Pill Bros. . . .	37 24		
Sundry persons . .	2 84		
		44 93	
Heating apparatus repairs :—			
T. W. Good		7 80	
Laundering towels :—			
E. & R. Laundry Co. .	$18 61		
James H. Lundergan .	10 11		
Monk's Custom Laundry	3 17		
		31 89	
Lighting, Camb Electric Light Co. .		54 36	
Paint, Wadsworth, Howland & Co .		87 17	
Plumbing, Herbert L. Rose . .		28 30	
Repairing awnings :—			
C H. Batchelder & Co. . . .		16 00	
Soap, John Reardon & Sons Co. .		7 00	
Sundries		9 25	
Toilet paper, Wm H. Claflin & Co. .		18 00	
Towels, Geo. B. Brooks . . .		191 00	
			2,777 75
Total . . .			5,999 54
Surplus of appropriation relinquished to General Treasury			46

COMMONS, SQUARES AND PUBLIC GROUNDS.

Appropriation		$5,000 00
EXPENDED.		
For bicycle repairs, E. H. McDuffee .	$7 25	
Climbing pole and fixing halyards :—		
Boston Flag Pole Co. . . .	62 00	
Amounts carried forward . .	$69 25	$5,000 00

Public Recreation — Continued.

PARK DEPARTMENT, COMMONS, SQUARES AND PUBLIC GROUNDS—Continued.

Amounts brought forward . .		$69 25	$5,000 00
For expressage, Sawin's Express . .		30	
Filling, as per pay-roll . . .		9 60	
Grass seed, Pill Bros. . . .		27 00	
Hardware, tools and supplies: —			
Jos Breck & Sons Corporation .	$13 33		
E. T. Bynner	37 67		
Jonn T Hourihan	37 00		
C. W. H. Moulton & Co. . .	4 68		
Wadsworth, Howland & Co. . .	15 88		
		108 56	
Housing flag-pole: —			
Boston Flag Pole Co. . . .		42 00	
Labor, as per pay-roll . . .		4,021 13	
Lighting: —			
Cambridge Electric Light Co. .		348 00	
Lumber, Geo. H. Jennings . .		68 90	
Placing tablet, Austin Ford & Son .		13 40	
Plants, bulbs, etc: —			
R. & J Farquhar & Co. . . .	$64 68		
P O'Brien & Son	96 00		
W. W. Rawson & Co. . . .	22 00		
		182 68	
Printing, J. Frank Facey . . .		2 50	
Repairing fence: —			
Chelmsford Foundry Co. . .		41 00	
Repairing flag, Henry A. Wheeler & Co.		14 63	
Teaming, as per pay-roll . . .		47 50	
Transfer: —			
Stock and labor, Water Dept. .		3 25	
Total			4,999 70
Surplus of appropriation relinquished to General Treasury			30

GENERAL ACCOUNT.

Appropriation	$600 00

Department Receipts Carried to General Treasury.

For labor	$25 09
Amount carried forward . . .	$600 00

Public Recreation — Continued.

PARK DEPARTMENT MAINTENANCE, GENERAL ACCOUNT—Concluded.

Amount brought forward . .			$600 00
EXPENDED.			
For fuel, Metropolitan Coal Co. . .		$25 60	
Hardware, tools and supplies: —			
E. T. Bynner	$5 00		
J. A. Holmes & Co. . . .	1 20		
Morss & Whyte Co. . . .	29 00		
		35 20	
Harness repairs, Hugh McCaffrey .		51 15	
Hay, grain, etc.: —			
Robert Fawcett	$89 27		
John E. Ryan	49 18		
		138 45	
Lighting, Cambridge Elec. Light Co.		12 28	
Lumber, Geo. W. Gale Lumber Co. .		13 12	
Paints, oils, etc , Murphy Varnish Co.		34 50	
Rent of stable and yard: —			
Minnie G. del Castillo . . .		270 00	
Transfer, Horseshoeing, Street Dept.		18 50	
Total			598 80
Surplus of appropriation relinquished to General Treasury			$1 20

SECTIONS A, B, D, F, AND RINDGE FIELD.

Appropriation			$3,500 00
EXPENDED.			
SECTION A.			
For lighting: —			
Welsbach Street Lighting Co. .		$216 36	
SECTION B.			
For lighting: —			
Welsbach Street Lighting Co. .		803 65	
SECTION D.			
For lighting: —			
Welsbach Street Lighting Co. .		737 18	
SECTION F.			
For lighting: —			
Welsbach Street Lighting Co. .		288 92	
RINDGE FIELD.			
For advertising, Cambridge Chronicle .	$9 50		
Expressage, Sawin's Express .	1 15		
Amounts carried forward . . .	$10 65	$2,046 11	$3,500 00

Public Recreation — Continued.

PARK DEPARTMENT MAINTENANCE, SECTIONS A, B, D, F AND RINDGE FIELD—Concluded.

Amounts brought forward . .	$10 65	$2,046 11	$3,500 00
For hardware, tools and supplies: —			
Warren Bros. Co. . . $6 10			
Sundry persons . . 3 96			
	10 06		
Lighting: —			
Camb. Elec. Light Co. . $192 00			
Welsbach St. Lighting Co 61 78			
	253 78		
Paint, Wadsworth, Howland & Co. .	10 36		
Pay-rolls: —			
Laborers . . . $896 25			
Engineers . . . 74 25			
	970 50		
Stakes, John Quin & Son . . .	19 50		
Teaming, as per pay-roll . . .	174 00		
Transfer, Repairs, Water Dept. .	4 85		
		1,453 70	
Total			3,499 81
Surplus of appropriation relinquished to General Treasury			19

SECTIONS G AND H.

Appropriation			$3,500 00
EXPENDED.			
For expressage, Savage & Son . .		$0 75	
Lighting: —			
Welsbach Street Lighting Co. .		830 26	
Pay-rolls, laborers		2,554 50	
Paving blocks: —			
Boston Elevated Railway Co. .		8 00	
Transfer: —			
Stock and Labor, Water Dept. .		21 16	
Use of man and horses on watering cart: —			
Mrs. Bridget Sullivan . . .		85 00	
Total			3,499 67
Surplus of appropriation relinquished to General Treasury			33

Public Recreation — Continued.

PARK DEPARTMENT, MAINTENANCE—Concluded.

SHADE TREES.

Appropriation			$5,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For labor	$15 00	

EXPENDED.

For bicycle repairs :—			
E. H. McDuffee	$8 00		
P. Powell	3 50		
		$11 50	
Damage to fence, Asa C. Lamson		4 80	
Filling, as per pay-roll		189 40	
Freight, Boston & Maine R. R.		3 52	
Hardware, tools and repairs, and supplies :—			
Jos. Breck & Sons Corporation	$5 25		
E. T. Bynner	29 85		
Fay Bros.	2 70		
J. A. Holmes & Co.	2 40		
John T. Hourihan	48 62		
Daniel J. Sullivan	14 60		
		103 42	
Pay-rolls :—			
Laborers	$3,985 31		
Engineers	41 25		
		4,026 56	
Poles, C. W. H. Moulton & Co.		238 60	
Sundries		3 15	
Teaming, as per pay-roll		69 76	
Trees :—			
Chas. R. Fish & Co.	$100 00		
Shady Hill Nursery Co.	36 00		
		136 00	
Wire :—			
Morss & Whyte Co.	$198 00		
Simplex Electrical Co.	14 52		
		212 52	
Total			4,999 23
Surplus of appropriation relinquished to General Treasury			77

BATHS. (7.3)

Appropriation			$2,100 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For use of suits, towels, etc	$1,671 93	
Amount carried forward		$2,100 00

Public Recreation — Continued.

PARK DEPARTMENT, BATHS—Continued.

Amount brought forward . .			$2,100 00
EXPENDED.			
For salaries of :—			
Bath-house keepers :—			
E W. Abbott . .	$156 00		
Joseph James . .	206 00		
Naz Kyan . . .	156 00		
Julia Rowe . . .	140 01		
Nellie Sullivan . .	147 15		
		805 16	
Life-guards :—			
Emerill B. Beucler .	$156 00		
John F. Cronin .	126 84		
John F. Cummings .	130 29		
Daniel F. McAuliffe .	156 00		
Frank W. McCann .	104 55		
		673 68	
Laundress, Catherine Freeman .		83 00	
			$1,561 84
Bathing suits, Emerson Bros. . .			151 50
Disinfectant :—			
Winchester's Tar Disinfectant Co.			12 80
Dry goods and supplies :—			
J. H. Corcoran & Co . . .		$70 60	
Farley, Harvey & Co. . . .		13 50	
			84 10
Hardware, tools and repairs, and supplies :—			
E. T. Bynner		$35 82	
J. A. Holmes & Co. . . .		4 25	
G. P. O'Brien		10 50	
Pill Bros.		12 20	
			62 77
Laundering, Monk's Laundry . .			147 41
Lighting, Camb. Electric Light Co. .			175 37
Printing, J. Frank Facey . . .			32 00
Rope, John T. Hourihan . . .			39 34
Sundries			3 91
Total			2,271 04
Excess of expenditures over appropriation . . .			$171 04
Additional appropriation			171 93
Balance relinquished to General Treasury . . .			89

Public Recreation — Continued.

CELEBRATIONS. (7.4)

INDEPENDENCE DAY.

Appropriation			$1,500 00
EXPENDED.			
For badges, Boston Badge Co.		$8 00	
Carriage hire, J. J. Callahan		12 00	
Cigars, Holderer & Macdonald		9 00	
Entries, Frank McGrath		18 60	
Fireworks, H. H. Tilton & Co.		750 00	
Games:—			
George English	$25 00		
P. H. McDonough	25 00		
Wm. McKeever	10 00		
Richard O'Brien	50 00		
William Ryan	50 00		
Myron F. Welsch	25 00		
		185 00	
Labor, as per pay-roll		12 00	
Lighting, Camb. Elec. Light Co.		8 80	
Music:—			
Cambridge Cadet Band	$65 00		
Cambridge City Band	130 00		
Monument National Band	65 00		
		260 00	
Printing, J. Frank Facey		15 00	
Prizes:—			
E. J. Dunphy	$124 10		
John B. McCloskey	50 00		
		174 10	
Refreshments:—			
Joseph Moran	$13 50		
G. H. Whippen	11 00		
		24 50	
Ringing bells:—			
Sundry persons, as per pay-roll		39 00	
Rope, base-balls, etc., Brock Bros.		12 16	
Sanction of games:—			
N. E. Amateur Athletic Union		10 00	
Services as managers of games:—			
John C. Haverty	$26 50		
G. Harry Hodgkins	27 57		
		54 07	
Services as umpire:—			
Wm. Copithorne	$5 00		
Fred Dogherty	5 00		
James Shannon	5 00		
		15 00	
Stakes, John Quin & Son		10 00	
Amounts carried forward		$1,617 23	$1,500 00

Public Recreation — Continued.

CELEBRATION, INDEPENDENCE DAY — Concluded.

Amounts brought forward		$1,617 23	$1,500 00
Use of chairs, S. H. Harrington		7 40	
Use of horse, Soden Street Stable		5 00	
Total			1,629 63
Excess of expenditures over appropriation			$129 63
Transfer to this account from Contingent Fund			200 00
Balance relinquished to General Treasury			$70 37

LABOR DAY.

Appropriation			$400 00
EXPENDED.			
For badges, C. F. Cammall		$9 85	
Base-ball game, A. L. Carroll		45 00	
Cash expended for sundries: —			
Max Merk		7 99	
Cigars, Wm. Stolba		12 00	
Handicapping games: —			
Thomas J. Conrick	$5 00		
Frank McGrath	9 20		
		14 20	
Printing, J. Frank Facey		5 00	
Prizes, E. J. Dunphy		187 00	
Refreshments, Bushway Ice Cream Co.		10 80	
Sanction for games: —			
N. E. Association of the Amateur Ath. Union		10 00	
Services of band, Thomas F. Moran		88 00	
Services as umpire, Fred Dougherty		10 00	
Total			399 84
Surplus of appropriation relinquished to General Treasury			16

MEMORIAL DAY.

Appropriation			$1,100 00
EXPENDED.			
For observance of Memorial Day: —			
Chas. Beck Post 56, G. A. R.	$250 00		
P. Stearns Davis' Post 57, G. A. R.	250 00		
John A. Logan Post 186, G. A. R.	250 00		
Wm. H. Smart Post 30, G. A. R.	250 00		
Leslie F. Hunting Camp, S. W. V.	100 00		
		1,100 00	
Total			$1,100 00

SCHEDULE A-VIII

APPROPRIATIONS AND EXPENDITURES

No. 9

PUBLIC INTEREST

9. PUBLIC INTEREST.

Appropriation	$234,000 00

DEPARTMENT RECEIPTS CARRIED TO GENERAL TREASURY.

For interest on bank deposits (9.1)	$4,605 21
Interest on sewer assessments (9.2)	60
Interest on sidewalk assessments (9 2)	78 60
Interest on overdue taxes (9.2)	9,907 45
Accrued interest (9.4)	1,956 55
	$16,548 41

EXPENDED.

For payment of interest on debt (9.3) :—			
Temporary tax loans	$8,187 70		
Funded debt	172,343 13		
Park loans	54,210 00		
		$234,740 83	
Payment of interest on trust funds (9.4) :—			
Daniel White Charity	$300 00		
Dowse Institute Fund	600 00		
Sanders Temperance Fund	600 00		
		1,500 00	
Total			236,240 83
Excess of expenditures over appropriation			$2,240 83
Additional appropriation			2,548 41
Balance relinquished to General Treasury			$307 58

INTEREST ON WATER LOAN.

Appropriation	$137,000 00

EXPENDED.

For payment of interest on water loans	$135,506 50	
Total		135,506 50
Surplus of appropriation relinquished to General Treasury		$1,493 50

SCHEDULE A-VIII

APPROPRIATIONS AND EXPENDITURES

No. 10

TAXATION

10. TAXATION.

ABATEMENTS.

EXPENDED.

For abatements, as per assessors' certificates :—		
TAXES OF 1905.		
Real Estate	$17,868 06	
Personal	8,499 76	
Poll	194 00	
Watering	19 56	
		$26,581 38
TAXES OF 1904.		
Real Estate	$11,898 32	
Personal	1,081 64	
Poll	196 00	
Watering	11 22	
		13,187 18
TAXES OF 1903.		
Real Estate	$709 84	
Personal	480 53	
Poll	74 00	
		1,264 37
TAXES OF 1902.		
Personal	$16 47	
Poll	46 00	
		62 47
TAXES OF 1901.		
Poll		2 00
TAXES OF 1900.		
Personal	$1 69	
Poll	2 00	
		3 69
TAXES OF 1899.		
Personal		5 09
Excess of taxes of 1904 over taxes of 1896 :—		
Benjamin F. Brown	$147 96	
Elmer H. Bright, Trustee	1,012 71	
Cambridgeport Savings Bank	465 94	
Geo. G. Crocker, et al.	2,725 19	
Edw., Geo. F. & James H. Kendall	172 16	
Geo. B. Roberts	274 14	
Heirs of Benjamin Tilton	267 86	
Wm. H. Wood	531 25	
		5,597 21
Amount carried forward		$46,703 39

Taxation — Concluded

ABATEMENTS — Concluded.

Amount brought forward . .		$46,703 39	
Refunds in accordance with decree of County Commissioners: —			
Cambridge Savings Bank . .	$399 12		
John Albro Little	1,489 85		
		1,888 97	
Cost of calling in invalid tax titles: —			
Estate of Henry C. Hubbard . .	$28 25		
Mass. Tax Title Co. . . .	33 52		
Geo. A. Richards	30 34		
Willard Welsh	48 90		
Harlow H Rogers	133 36		
		274 37	
Total			$48,866 73

SCHEDULE B

Nos. I to VII

ASSETS AND LIABILITIES

SCHEDULE B–I

Consolidated Balance Sheet. November 30, 1905.

ASSETS.		LIABILITIES.	
Current Assets (B–II.)	$585,966 18	Current Liabilities (B–II.)	$74,808 93
Contingent Assets (B–III.)	225,805 83	Contingent Liabilities (B–III.)	6.250 06
Trust Funds and Special Deposits (B–IV.)	117,349 92	Trust Liabilities (B–IV.)	117,349 92
Sinking Funds (B–V.)	2,228,012 73	Bonded Debt (B–V.)	9,825,450 00
Total Available Assets	$3,157,134 66	Total Liabilities	$10,023,858 91
Fixed Assets (Unavailable. B–VI.)	11,473,766 54	General Deficit and Surplus Account (B–VII.)	4,607,042 29
Grand Total of Assets	$14,630,901 20	Grand Total of Liabilities and Surplus	$14,630,901 20

SCHEDULE B-II.

CURRENT ASSETS.

CASH:		
Cash in the Treasury available for general purposes		*$141,708 92
Cash in the Treasury available for special assessments (*included above.*)		
GOOD ACCOUNTS RECEIVABLE:		
Delinquent Property Taxes	$417,515 90	
Other good accounts:		
Sewer Assessments	1,238 47	
Sidewalk Assessments	10,685 46	
Street Watering Assessments	5,229 37	
Miscellaneous Bills	9,588 06	
Total Good Accounts Receivable		444,257 26
Total Current Assets		$585,966 18

CURRENT LIABILITIES.

(Floating Debts.)

1. OUTSTANDING ACCOUNTS DUE AND UNPAID:		
Of the current year		
Land Damages	$70,000 00	
Of previous years		
Tax Sale Surplus	461 07	
2. OUTSTANDING ACCOUNTS NOT DUE:		
Temporary Tax Loans Unpaid		
Other Accounts, Miscellaneous Bills	4,347 86	
Total Current Liabilities		74,808 93
Surplus of Current Assets (B-VII.)		$511,157 25

* The Treasurer's actual cash is $25,000 greater, as it includes $25,000 which has here been treated as cash in three trust funds. (See Schedule B-IV.) The actual cash balance of $166,708 92 has been shown on Schedule A-I, distributed to various funds and accounts.

SCHEDULE B–III

CONTINGENT ASSETS.

DOUBTFUL ACCOUNTS RECEIVABLE:

Delinquent Personal Property and Poll Taxes, viz.:		
1897	$26,829 17	
1898	27,079 80	
1899	21,750 42	
1900	22,924 10	
1901	21,820 62	
1902	23,787 17	
1903	22,352 27	
1904	37,010 03	
Liens	199 70	
		$203,753 28
Other doubtful accounts, viz:		
Betterments	$2,876 35	
Miscellaneous Bills	19,176 20	
		22,052 55
Total Contingent Assets		$225,805 83

CONTINGENT LIABILITIES.

RETENTION FUND ACCOUNT:

Percentage of Contractors' payments retained, viz:		
Wm. Crane	$458 56	
James H. Fannon	250 00	
John Harrington	300 00	
Holbrook, Cabot & Rollins	3,654 89	
Pigeon Hill Granite Co.	1,586 61	
Total Contingent Liabilities		$6,250 06
Surplus of Contingent Assets (B-VII.)		$219,555 77

SCHEDULE B–IV.

TRUST FUNDS ASSETS.

CASH IN TRUST FUNDS:		
Firemen's Pension Fund		
Police Pension Fund		
Special Deposits, etc., viz.:		
Cemetery Fund	$1,096 23	
Daniel White Charity Fund	*5,000 00	
Dowse Institute Fund	*10,000 00	
Sanders Temperance Fund	*10,000 00	
Bridge Charitable Fund	5,207 17	
Sarah E. Russell Fund	814 41	
Wm. E. Saunders Fund	382 11	
Total cash in Trust Funds		$32,499 92
INVESTMENTS OF TRUST FUNDS:		
Stocks and Bonds in various Funds, viz.:		
Cemetery Fund	$64,350 00	
Cummings Legacy	2,000 00	
Fay Legacy	1,000 00	
Citizens' Subscription Fund	5,500 00	
Wm. E. Saunders Fund	7,000 00	
James A. Woolson Fund	5,000 00	
		84,850 00
Total Assets in Trust Funds		$117,349 92

LIABILITIES.

Firemen's Pension Fund Account		
Police Pension Fund Account		
Other Trust Funds and Special Funds, viz.:		
Daniel White Charity Fund	$5,000 00	
Dowse Institute Fund	10,000 00	
Sanders Temperance Fund	10,000 00	
Cemetery Fund Account	65,446 23	
Bridge Charitable Fund	5,207 17	
Citizens' Subscription Fund	5,500 00	
Cummings Legacy	2,000 00	
Fay Legacy	1,000 00	
Sarah E. Russell Fund	814 41	
Wm. E. Saunders Fund	7,382 11	
James A. Woolson Fund	5,000 00	
Total Liabilities		$117,349 92

* For the purposes of this schedule these amounts have been deducted from the Treasurer's general cash (B–II.) and set up here as assets.

SCHEDULE B–v.

SINKING FUNDS ASSETS.

CASH IN ALL SINKING FUNDS.....		$2,412 73
INVESTMENTS OF SINKING FUNDS.....		
Bonds and Other Securities, viz.:		
(Per list in report of Sinking Funds Commissioners)	$2,225,600 00	2,225,600 00
Total Assets in Sinking Funds.....		$2,228,012 73

BONDED DEBTS OF THE CITY.

1. GENERAL BONDS:		
a. For General Municipal Purposes.		
* Funded City Debt.....	$6,178,850 00	
b. For Municipal Enterprises.		
† Water Works.....	3,646,600 00	
2. SPECIAL ASSESSMENT BONDS:‡		
Total of Bonded Debts.....		9,825,450 00
Excess of Debts (Net Bonded Debt. See B–VII.)		$7,597,437 27

* Schedule in detail will be found on pages 372 to 375, inclusive, of the Auditor's Report.

† Schedule in detail will be found on page 376 of the Auditor's Report.

‡ Included in 1-a above.

SCHEDULE B–VI.

FIXED ASSETS.

LAND, BUILDINGS AND EQUIPMENT.

Law Department, Equipment		$105 00
City Buildings:		
Land	$104,300 00	
Buildings	338,100 00	
Equipment	39,180 00	
		481,580 00
Police Department:		
Equipment		17,161 20
Fire Department:		
Land	$43,800 00	
Buildings	158,500 00	
Equipment	83,605 00	
		285,905 00
Fire and Police Telegraph, Equipment		39,355 00
Health Department:		
Land	$10,100 00	
Buildings	6,000 00	
Equipment	4,637 74	
		20,737 74
Inspection of Milk and Vinegar, Equipment		938 00
Cemeteries:		
Land	$60,000 00	
Buildings	2,500 00	
Equipment	2,657 72	
		65,157 72
Sealer of Weights and Measures, Equipment		1,872 25
Armories:		
Land	$25,000 00	
Buildings	150,000 00	
Equipment	5,000 00	
		180,000 00
City Home:		
Land	$53,500 00	
Buildings	28,200 00	
Equipment	23,165 00	
		104,865 00
Street Department (Stables, etc):		
Land	$76,000 00	
Buildings	60,000 00	
Equipment	65,075 54	
		201,075 54
Engineering Department, Equipment		96,535 00

SCHEDULE B–VI.— Concluded.

Sewer Department (Stables, etc.):		
Land	$5,900 00	
Buildings	4,100 00	
Equipment	7,511 00	
		17,511 00
Street Lighting, Equipment		4,100 00
Bridge Department, Equipment		2,388 00
Water Works:		
Land, Dams, etc	$1,325,510 31	
Buildings	101,810 40	
Equipment	1,677,943 73	
		3,105,264 44
Schools:		
Land	$383,950 00	
Buildings	1,689,550 00	
Equipment	170,078 36	
		2,243,578 36
Library:		
Land	$85,000 00	
Buildings	145,000 00	
Equipment	83,875 00	
		313,875 00
Parks:		
Land	$4,225,912 29	
Buildings	63,000 00	
Equipment	2,850 00	
		4,291,762 29
Total Fixed Assets. (See B–VII.)		$11,473,766 54

SCHEDULE B–VII.

GENERAL DEFICIT AND SURPLUS ACCOUNT.

DEFICITS.

* Deficit of Current Assets (B–II.), if any.....		
† Deficit of Contingent Assets (B–III.), if any.....		
† Deficit of Trust Funds Assets (B–IV.), if any.....		
† Deficit of Sinking Funds Assets (B–V.), viz.:		
Net Bonded Debt.....	$7,597,437 27	
Total of all Deficits.....		$7,597,437 27

SURPLUS.

* Surplus of Current Assets (B–II.), if any.....	$511,157 25	
† Surplus of Contingent Assets (B–III.), if any.....	219,555 77	
† Surplus of Trust Funds (B–IV.), if any.....		
† Surplus of Sinking Funds (B–V.), if any.....		
Total Surplus, excluding Fixed Assets ‡...		730,713 02
Excess of Deficits, viz.:		
Total Net Debts of the City.....		$6,866,724 25

BALANCE.

Total of Fixed Assets:	
Land, Buildings, Equipments (B–VI.).....	$11,473,766 54
Deduct Total Net Debts of the City, as above.....	6,866,724 25
Balance of this Account, General Surplus (B–I.)...	$4,607,042 29

* Balance of Schedule B–II. will appear under *one* or the *other* of these heads.
† Balance of other schedules, B–III., etc., will appear in like manner.
‡ Fixed Assets are set up by themselves under "Balance." (See above.)

SCHEDULE B

No. VIII

CITY FUNDED DEBT AND MISCELLANEOUS TABLES

CITY FUNDED DEBT.

There have been additions to the City Funded Debt during the year as follows:

Cambridge Bridge Loan, registered and coupon bonds payable in forty years, at an annual interest of three and one half per cent		
For the purpose of the construction of the "Cambridge Bridge" and its approaches, and for other purposes, as authorized under the provisions of Chapter 467 of the Legislative Acts of 1898.		$250,000 00
Park Loan, registered bonds payable in forty years, at an annual interest of three and one-half per cent.		
For the purpose of paying for property purchased, taken or held for a public park or esplanade as authorized by Chapter 341 of the Acts of 1892, Chapter 337, Acts of 1893 and Acts in amendment thereof and in addition thereto, and also for defraying the expense of constructing such park or esplanade and for any purpose incident to the protection, enlargement or advancement of a public park or esplanade in said City of Cambridge, as authorized by Chapter 221 of the Acts of the year 1899 . .		55,000 00
Schoolhouse Loans, registered and coupon bonds payable in twenty years, at an annual interest of three and one half per cent.		
For the purpose of the construction of an addition to the Roberts School House		20,950 00
For the purpose of addition to and equipment of the Rindge Manual Training School		20,000 00
Sewer Loans, registered bonds payable in thirty years, at an annual interest of three and one-half per cent		
For the purpose of constructing sewers, as authorized by Chapters 189 and 473 of the Acts of 1899		50,000 00
For the purpose of constructing sewers, as authorized by Chapter 383 of the Acts of 1903		25,000 00
For the purpose of constructing sewers, as authorized by Section 11 of Chapter 27 of the Revised Laws		15,000 00
Street Loan, registered bonds payable in twenty years, at an annual interest of three and one-half per cent.		
For the purpose of the construction of highways, streets and ways and for defraying the cost of any real estate or interest therein taken for such highways, streets, ways or buildings, under authority conferred by Chapter 212 of the Acts of 1894 . .		85,500 00
		$521,450 00

There has been a decrease in the City Debt by the payment of matured bonds as follows:

Cemetery Loan, registered bond issued Aug. 1, 1895, at an annual interest of four per cent . . .	$65,000 00	
Sewer Loan, coupon bonds issued July 1, 1875, at an annual interest of six per cent	144,000 00	
Street Widening Loan, coupon bonds issued July 1, 1875, at an annual interest of six per cent. . .	14,000 00	
		223,000 00
Total increase		$298,450 00

	1904.	1905.	Increase.	Decrease.
Funded City Debt.....	$5,880,400 00	$6,178,850 00	$298,450 00	.....
Sinking Funds.....	873,343 60	845,183 89	....	$28,159 71
Net Funded City Debt.....	$5,007,056 40	$5,333,666 11	$326,609 71	.....

The following is a statement of the total funded debt of the City, with the rates of interest thereon :—

BRIDGE LOAN.

Date of Issue.	Rate of Interest.	When Due.	Amount.	Total.
Oct. 1, 1887 R.....	4 per cent.—30 yrs....	Oct. 1, 1917.....	$10,000 00	
July 1, 1888 C.....	4 " —30 "	July 1, 1918.....	100,000 00	
Sept. 1, 1888 C.....	4 " —30 "	Sept. 1, 1918.....	100,000 00	
Mar. 1, 1889 C.....	4 " —30 "	Mar. 1, 1919.....	115,000 00	
Nov. 1, 1890 R.....	4 " —30 "	Nov. 1, 1920	5,000 00	
July 1, 1891 C.....	4 " —30 "	July 1, 1921.....	60,000 00	
Aug. 1, 1893 C.....	4 " —30 "	Aug. 1, 1923.....	10,000 00	
July 1, 1899 R.....	3½ " —40 "	July 1, 1939.....	50,000 00	
July 2, 1900 R.....	3½ " —40 "	July 2, 1940.....	100,000 00	
Feb. 1, 1901 R.....	3 " —40 "	Feb 1, 1941.....	100,000 00	
Nov. 1, 1901 R.....	3½ " —40 "	Nov. 1, 1941.....	100,000 00	
July 1, 1902 R. & C.	3½ " —40 "	July 1, 1942.....	100,000 00	
Jan. 1, 1903 R.....	3½ " —40 "	Jan. 1, 1943.....	50,000 00	
April 1, 1903 R.....	3½ " —40 "	Apr. 1, 1943.....	50,000 00	
Aug. 1, 1903 C.....	3½ " —40 "	Aug. 1, 1943.....	50,000 00	
Jan. 1, 1904 R.....	3½ " —40 "	Jan. 1, 1944.....	100,000 00	
May 1, 1904 C.....	3½ " —40 "	May 1, 1944.....	200,000 00	
Aug. 1, 1904 R.....	3½ " —40 "	Aug. 1, 1944.....	150,000 00	
May 1, 1905 R.....	3½ " —40 "	May 1, 1945.....	150,000 00	
Dec. 1, 1905 R.....	3½ " —40 "	Dec. 1, 1945.....	100,000 00	$1,700,000 00

BUILDING LOAN.

Aug. 1, 1894 R. & C.	4 per cent.—20 yrs....	Aug. 1, 1914.. ...	$37,000 00	
Oct. 1, 1895 R.....	4 " —20 "	Oct. 1, 1915.....	25,000 00	
Oct. 1, 1896 R.....	4 " —20 " ...	Oct 1, 1916.....	60,000 00	
April 1, 1903 R.....	3½ " —20 "	Apr. 1, 1923.....	3,000 00	
April 1, 1904 C.....	3½ " —20 "	Apr. 1, 1924.....	25,000 00	
May 1, 1904 R.....	3½ " —20 "	May 1, 1924.....	5,000 00	$155,000 00

CAMBRIDGE BRIDGE SPECIAL LOAN.

(Charles River Dam.)

May 1, 1904 R.....	3½ per cent.—30 yrs....	May 1, 1934.....		$28,000 00

CAMBRIDGE CEMETERY LOAN.

Nov. 1, 1900 R.....	3½ per cent.—10 yrs....	Nov. 1, 1910.....		$7,000 00

CITY LOAN.

Aug. 1, 1898 R.....	3½ per cent.—10 yrs....	Aug. 1, 1908.....	$4,900 00	
Nov. 1, 1901 R.....	3½ " —10 "	Nov. 1, 1911.....	6,000 00	
July 1, 1902 R.....	3½ " —10 "	July 1, 1912.....	38,000 00	
Nov. 1, 1902 R.....	3½ " —10 " ...	Nov. 1, 1912.....	20,000 00	$68,900 00

CLAY LAND LOAN.

July 1, 1896 R.....	4 per cent.—15 yrs....	July 1, 1911.....	$50,000 00	
Nov. 1, 1897 R.....	3½ " —15 "	Nov. 1, 1912.....	20,000 00	
Aug. 1, 1898 R.....	3½ " —15 " ..	Aug. 1, 1913	10,000 00	
July 1, 1899 R.....	3½ " —15 "	July 1, 1914.....	17,000 00	$97,000 00

Amount carried forward $2,055,900 00

Amount brought forward $2,055,900 00

HOSPITAL LOAN.

July 1, 1902 R.....	3½ per cent.—20 yrs....	July 1, 1922			$6,000 00

METROPOLITAN PARK ASSESSMENT LOAN.

Aug. 1, 1902 R.....	3½ per cent.—30 yrs....	Aug. 1, 1932			$46,000 00

PARK LOAN.

Feb. 1, 1894 R. & C.	4 per cent.—30 yrs....	Feb. 1, 1924.....	$360,000 00		
Aug. 1, 1895 R	4 " —40 "	Aug. 1, 1935	100,000 00		
Feb. 1, 1896 R.....	4 " —40 "	Feb. 1, 1936.....	100,000 00		
Aug. 1, 1896 R.....	4 " —30 "	Aug. 1, 1926	100,000 00		
Oct. 1, 1896 R.....	4 " —30 "	Oct. 1, 1926.....	40,000 00		
Sept. 1, 1897 R.....	3½ " —40 "	Sept. 1, 1937.....	100,000 00		
Nov. 1, 1897 R.....	3½ " —40 "	Nov. 1, 1937.....	50,000 00		
June 1, 1898 R	3½ " —40 "	June 1, 1938.....	50,000 00		
Aug. 1, 1898 R.....	3½ " —40 "	Aug. 1, 1938	100,000 00		
Aug. 1, 1899 R ...	3½ " —40 "	Aug. 1, 1939.....	100,000 00		
July 2, 1900 R.....	3½ " —40 " ...	July 2, 1940.....	50,000 00		
Nov. 1, 1900 R.....	3½ " —40 "	Nov. 1, 1940.....	50,000 00		
Nov. 1, 1901 R.....	3½ " —40 "	Nov. 1, 1941.....	100,000 00		
July 1, 1902 R.	3½ " —40 "	July 1, 1942	48,000 00		
April 1, 1903 R.....	3½ " —40 "	April 1, 1943.....	50,000 00		
Sept. 1, 1904 R	3½ " —40 "	Sept. 1, 1944.....	25,000 00		
Nov. 1, 1904 R.....	3½ " —40 "	Nov. 1, 1944.....	6,000 00		
April 1, 1905 R.....	3½ " —40 " ...	April 1, 1945.....	5,000 00		
May 1, 1905 R	3½ " —40 "	May 1, 1945.....	45,000 00		
Aug. 1, 1905 R.....	3½ " —40 "	Aug. 1, 1945.....	5,000 00		$1,484,000 00

PAVING LOAN.

Oct. 1, 1897 R.....	3½ per cent.—10 yrs....	Oct. 1, 1907.			$20,000 00

PUBLIC LIBRARY LOAN.

Nov. 1, 1901 R.....	3½ per cent.—20 yrs....	Nov. 1, 1921.....			$27,000 00

SCHOOLHOUSE LOAN.

Aug. 1, 1894 R. & C.	4 per cent —20 yrs....	Aug. 1, 1914.....	$81,000 00		
Oct. 1, 1895 R.	4 " —20 " ...	Oct. 1, 1915.....	35,000 00		
Oct. 1, 1896 R.....	4 " —20 "	Oct. 1, 1916.....	43,000 00		
Oct 1, 1896 R.....	4 " —20 " ...	Oct. 1, 1916.....	6,000 00		
July 1, 1897 R.... .	3½ " —20 "	July 1, 1917.....	100,000 00		
Nov. 1, 1897 R.....	3½ " —10 "	Nov. 1, 1907... ..	9,500 00		
May 2, 1898 R.....	3½ " —20 "	May 2, 1918.....	100,000 00		
June 1, 1898 R.....	3½ " —20 "	June 1, 1918.....	50,000 00		
Aug. 1, 1898 R.....	3½ " —20 "	Aug. 1, 1918.....	142,000 00		
July 1, 1899 R.....	3½ " —20 "	July 1, 1919.....	42,000 00		
July 1, 1899 R	3½ " —10 " ...	July 1, 1909 ...	45,000 00		
Nov. 1, 1899 R.....	3½ " —10 "	Nov. 1, 1909.....	32,000 00		
Nov. 1, 1899 R.....	3½ " —20 "	Nov. 1, 1919.....	13,000 00		
Nov. 1, 1900 R.....	3½ " —10 "	Nov. 1, 1910.....	36,000 00		
July 1, 1901 R.....	3½ " —20 "	July 1, 1921.....	76,000 00		
Nov. 1, 1901 R.....	3½ " —10 "	Nov. 1, 1911	30,000 00		
July 1, 1902 R.....	3½ " —20 "	July 1 1922.....	86,500 00		
Oct. 1, 1902 R.....	3½ " —20 "	Oct. 1, 1922	11,000 00		
Oct. 1, 1903 R.....	3½ " —20 "	Oct. 1, 1923.....	80,000 00		
April 1, 1904 C.....	3½ " —20 " ...	Apr. 1, 1924.....	80,000 00		
Nov. 1, 1904 R ...	3½ " —20 "	Nov. 1, 1924.....	20,000 00		
Nov. 1, 1904 R	3½ " —20 "	Nov. 1, 1924	6,000 00		
May 1, 1905 R	3½ " —20 "	May 1, 1925	20,950 00		
Aug. 1, 1905 R.....	3½ " —20 "	Aug. 1, 1925.....	20,000 00		$1,164,950 00

Amount carried forward $4,803,850 00

Amount brought forward $4,803,850 00

SEWER LOAN.

Nov. 1, 1887 R.....	4 per cent.—20 yrs ...	Nov. 1, 1907.....	$30,000 00	
Nov. 1, 1889 C.....	4 " —20 "	Nov. 1, 1909	22,000 00	
May 1, 1890 R.....	4 " —20 "	May 1, 1910.....	15,000 00	
July 1, 1891 C.....	4 " —20 "	July 1, 1911.....	15,000 00	
Aug. 1, 1894 R. & C.	4 " —30 "	Aug. 1, 1924	75,000 00	
Oct. 1, 1895 R.....	4 " —30 "	Oct. 1, 1925.....	60,000 00	
Oct. 1, 1896 R.....	4 " —20 "	Oct. 1, 1916.....	75,000 00	
Aug. 1, 1901 R	3½ " —30 " ...	Aug. 1, 1931.....	10,000 00	
Oct. 1, 1903 R.....	3½ " —30 "	Oct. 1, 1933.....	20,000 00	
May 1, 1904 R.....	3½ " —30 "	May 1, 1934.....	40,000 00	
Nov. 1, 1904 R.....	3½ " —30 "	Nov. 1, 1934.....	5,000 00	
May 1, 1905 R.....	3½ " —30 "	May 1, 1935.....	15,000 00	$382,000 00

SEWER LOAN. (Improved Sewerage).

Nov. 1, 1899 R.....	3½ per cent.—30 yrs ...	Nov. 1, 1929.....	$42,000 00	
July 2, 1900 R.....	3½ " —30 "	July 2, 1930.....	100,000 00	
Aug. 1, 1901 R.....	3½ " —30 "	Aug. 1, 1931.....	100,000 00	
Nov. 1, 1902 R.....	3½ " —30 "	Nov. 1, 1932	20,000 00	
Apr. 1, 1903 R.....	3½ " —30 "	Apr. 1, 1933.....	40 000 00	
May 1, 1904 R.....	3½ " —30 "	May 1, 1934.....	47,000 00	
May 1, 1905 R.....	3½ " —30 "	May 1, 1935.....	50,000 00	$399,000 00

SEWER LOAN. (Separate System of Drainage.)

May 1, 1904 R.....	3½ per cent.—30 yrs....	May 1, 1934.....	$25,000 00	
May 1, 1905 R.....	3½ " —30 "	May 1, 1935.....	25,000 00	$50,000 00

STREET LOAN.

Aug. 1, 1894 C.	4 per cent.—20 yrs....	Aug. 1, 1914.....	$30,000 00	
Oct. 1, 1895 R	4 " —20 "	Oct. 1, 1915.....	60,000 00	
Oct. 1, 1896 R.....	4 " —20 "	Oct. 1, 1916.....	137,000 00	
Nov. 1, 1897 R	3½ " —10 "	Nov. 1, 1907.....	11,000 00	
May 2, 1898 R.....	3½ " —20 " ...	May 2, 1918.....	15,000 00	
Nov. 1, 1899 R.....	3½ " —20 "	Nov. 1, 1919.....	5,000 00	
Nov. 1, 1900 R	3½ " —20 "	Nov. 1, 1920.....	21,000 00	
July 1, 1901 R.....	3½ " —20 " ...	July 1, 1921.. ...	54,000 00	
July 1, 1902 R	3½ " —20 "	July 1, 1922	30,000 00	
Nov. 1, 1902 R.....	3½ " —20 "	Nov. 1, 1922.....	14,000 00	
Apr. 1, 1903 R..	3½ " —20 " ...	Apr. 1, 1923.....	4,000 00	
Nov. 2, 1903 R.....	3½ " —20 " ...	Nov. 2, 1923.....	12,000 00	
Sept. 1, 1904 R.. ...	3½ " —20 "	Sept. 1, 1924.....	59,000 00	
Nov. 1, 1904 R.....	3½ " —20 " ...	Nov. 1, 1924.....	6,500 00	
May 1, 1905 R.....	3½ " —20 "	May 1, 1925	84,000 00	
Nov. 1, 1905 R.....	3½ " —20 "	Nov. 1, 1925.....	1,500 00	$544,000 00

TOTAL FUNDED CITY DEBT $6,178,850 00

Following is a statement of the total Funded Water Debt of the City, with rates of interest thereon: —

Date of Issue.	Rate of Interest.	When Due.	Amount.	Total.
Nov. 1, 1886 R.....	3½ per cent.—20 yrs....	Nov. 1, 1906.....	$43,000 00	
Oct. 1, 1887 R.....	4 " —20 "	Oct. 1, 1907.....	90,000 00	
Nov. 1, 1887 R.....	4 " —20 "	Nov. 1, 1907	22,000 00	
July 1, 1888 C.....	4 " —20 " ...	July 1, 1908	46,000 00	
Aug. 1, 1888 C.....	4 " —20 "	Aug. 1, 1908.....	25,000 00	
July 1, 1889 C.....	4 " —20 " ...	July 1, 1909.....	20,000 00	
May 1, 1885 R. & C.	4 " —25 "	May 1, 1910.....	288,000 00	
July 1, 1890 C.....	4 " —20 "	July 1, 1910.....	75,000 00	
Sept. 1, 1890 C.....	4 " —20 "	Sept. 1, 1910.....	125,000 00	
Jan. 1, 1891 C.....	4 " —20 "	Jan. 1, 1911.....	20,000 00	
Oct. 1, 1891 C.....	4 " —20 "	Oct. 1, 1911.....	35,000 00	
Jan. 1, 1892 C.....	4 " —20 "	Jan. 1, 1912.....	150,000 00	
May 2, 1892 C.....	4 " —20 "	May 2, 1912.....	75,000 00	
Nov. 1, 1892 C.. ...	4 " —20 " ...	Nov. 1, 1912.....	45,000 00	
Feb. 1, 1893 R.....	4 " —20 "	Feb. 1, 1913.....	100,000 00	
Aug. 1, 1893 R. & C.	4 " —20 "	Aug. 1, 1913.....	50,000 00	
April 1, 1895 R.....	4 " —20 "	April 1, 1915.....	200,000 00	
Aug. 1, 1895 R.....	4 " —20 "	Aug. 1, 1915.....	200,000 00	
April 1, 1894 C.....	4 " —30 "	April 1, 1924.....	300,000 00	
April 1, 1896 R.....	4 " —20 "	April 1, 1916.....	100,000 00	
July 1, 1896 R . ..	4 " —20 "	July 1, 1916.....	200,000 00	
Aug. 1, 1896 R.....	4 " —20 "	Aug. 1, 1916.....	100,000 00	
Oct. 1, 1896 R	4 " —20 "	Oct. 1, 1916.....	265,100 00	
April 1, 1897 R.....	3½ " —20 " ...	April 1, 1917.....	200,000 00	
July 1, 1897 R.....	3½ " —20 "	July 1, 1917.....	100,000 00	
Nov. 1, 1897 R.....	3½ " —20 "	Nov. 1, 1917.....	75,000 00	
Dec. 1, 1897 R.....	3½ " —20 "	Dec. 1, 1917.....	140,000 00	
May 2, 1898 R.....	3½ " —20 " ..	May 2, 1918.....	50,000 00	
June 1, 1898 R.....	3½ " —20 "	June 1, 1918.....	60,000 00	
Nov. 1, 1898 R.....	3½ " —20 "	Nov. 1, 1918.....	50,000 00	
Nov. 1, 1899 R.....	3½ " —20 " ..	Nov. 1, 1919.....	23,000 00	
Nov. 1, 1900 R.....	3½ " —20 " ...	Nov. 1, 1920.....	30,000 00	
July 1, 1901 R.....	3½ " —20 " ...	July 1, 1921.....	30,000 00	
July 1, 1902 R.....	3½ " —20 "	July 1, 1922.....	13,500 00	
Nov. 1, 1902 R.....	3½ " —20 "	Nov. 1, 1922.....	5,000 00	
May 1, 1905 R.....	3½ " —20 "	May 1, 1925.....	46,000 00	$3,396,600 00

SERIAL LOAN.

May 1, 1905 S.....	3½ per cent.— 1 yr. ..	May 1, 1906.....	$12,500 00	
" 1, 1905 S.	3½ " — 2 yrs ...	" 1, 1907.....	12,500 00	
" 1, 1905 S.....	3½ " — 3 "	" 1, 1908.....	12,500 00	
" 1, 1905 S.....	3½ " — 4 "	" 1, 1909.....	12,500 00	
" 1, 1905 S.....	3½ " — 5 "	" 1, 1910.....	12,500 00	
" 1, 1905 S.....	3½ " — 6 " ...	" 1, 1911.....	12,500 00	
" 1, 1905 S.....	3½ " — 7 "	" 1, 1912.....	12,500 00	
" 1, 1905 S.....	3½ " — 8 "	" 1, 1913.....	12,500 00	
" 1, 1905 S.	3½ " — 9 "	" 1, 1914.....	12,500 00	
" 1, 1905 S.....	3½ " —10 "	" 1, 1915.....	12,500 00	
" 1, 1905 S.....	3½ " —11 "	" 1, 1916.	12,500 00	
" 1, 1905 S.....	3½ " —12 "	" 1, 1917.....	12,500 00	
" 1, 1905 S.....	3½ " —13 " ...	" 1, 1918.....	12,500 00	
" 1, 1905 S.....	3½ " —14 "	" 1, 1919	12,500 00	
" 1, 1905 S.....	3½ " —15 "	" 1, 1920.....	12,500 00	
" 1, 1905 S.....	3½ " —16 "	" 1, 1921.....	12,500 00	
" 1, 1905 S.....	3½ " —17 "	" 1, 1922.....	12,500 00	
" 1, 1905 S.....	3½ " —18 "	" 1, 1923.....	12,500 00	
" 1, 1905 S.....	3½ " —19 "	" 1, 1924	12,500 00	
" 1, 1905 S.....	3½ " —20 "	" 1, 1925.....	12,500 00	$250,000 00
				$3,646,600 00

	1904.	1905.	Decrease.	Increase.
Funded Water Debt.....	$3,350,600 00	$3,646,600 00		$296,000 00
Sinking Fund.....	1,218,686 74	1,382,828 84		164,142 10
Net Funded Water Debt.....	$2,131,913 26	$2,263,771 16		$131,857 90

RECAPITULATION.

Amount of funded City Loan upon which interest is at 4 per cent.	$1,956,000 00	
Amount of funded City Loan upon which interest is at 3½ per cent.	4,122,850 00	
Amount of funded City Loan upon which interest is at 3 per cent.	100,000 00	
		$6,178,850 00
Amount of Water Loan upon which interest is at 4 per cent	$2,531,100 00	
Amount of Water Loan upon which interest is at 3½ per cent.	1,115,500 00	
		$3,646,600 00

Temporary loans for the past twelve years, and interest upon the same :—

Year.	Temporary Loan.	Interest paid upon Loan.	Year.	Temporary Loan.	Interest paid upon Loan.
1894	$125,000	$3,106 15	1900	$600,000	$9,961 96
1895	550,000	6,194 64	1901	550,000	6,759 03
1896	786,000	12,344 07	1902	520,000	8,337 76
1897	600,000	6,186 40	1903	701,000	9,388 13
1898	500,000	9,642 86	1904	550,000	8,548 37
1899	550,000	6,968 86	1905	575,000	8,829 92

THE TRUST FUNDS

Assumed by the City are held by trustees, and interest is paid upon them at the rate of 6 per cent. annually, as follows :—

Name of Fund.	Amount.	Interest.
Daniel White Charity Fund	$5,000	At 6 per cent. $300
Dowse Institute Fund	10,000	At 6 per cent. 600
Sanders Temperance Fund	10,000	At 6 per cent. 600
	$25,000	$1,500

DANIEL WHITE CHARITY. ($10,360.00.)

Established by Daniel White, of Charlestown, in his lifetime, for the purchase and distribution of fuel among the deserving poor of Cambridge, his native city.

May 15, 1863, he appointed four trustees, with the Mayor of Cambridge, *ex officio*, to hold the fund of $5,000.00, the interest only to be expended The trustees fill any vacancies in their number, in case of death, etc. Ex-Mayor J. Warren Merrill added to this fund a bequest in cash and stocks to the value of $5,360.00, thus making the principal $10,360.00. The present permanent members are George S. Saunders, Lucas B. Grover, Willard A. Bullard and George H. Howard, and the fund is invested by the trustees.

THE DOWSE INSTITUTE. ($10,000.00.)

The executors of Thomas Dowse, under a discretionary power in his will, gave to the City, on June 3, 1858, the sum of ten thousand thousand dollars for an annual course of lectures, the City agreeing to pay to the trustees of said institute interest thereon at the rate of six per cent. per annum. The trustees consist of three permanent members, with the Mayor and the President of the Common Council, for the time being. The original permanent members were appointed by the executors, and the board fills its own vacancies.

THE SANDERS TEMPERANCE FUND. ($10,000.00.)

This sum was given to the City by the will of Charles Sanders, of Cambridge, who died April 7, 1864, for the support of a missionary to promote the cause of temperance. The trustees consist of the Mayor, President of the Board of Aldermen and President of the Common Council. The fund is invested in a note of the City, bearing interest payable quarter-yearly.

THE HOPKINS FUND. (£500.)

Edward Hopkins died in London, England, in 1657 or 1658, leaving £500 to be used upon the death of his widow, to aid a college and school in New England. The Court of Chancery gave it to Harvard College and a school in Cambridge. One-fourth of the net income is paid annually to the City for classical instruction in the Latin School. The trustees are a corporation established in Boston.

[CHAPTER 322.]

AN ACT TO PROVIDE FOR THE AUDITING OF CERTAIN TRUST FUNDS AND ACCOUNTS.

Be it enacted, etc., as follows:

SECTION 1. It shall be the duty of city and town auditors at least once every year, and so much oftener as they may deem it necessary, to audit the accounts of the trustees of any property the principal or income of which, in whole or in part, was bequeathed or given in trust for the benefit of the city or town or any part thereof, or for the benefit of the inhabitants of the city or town or of any part thereof, and to examine and estimate the funds, securities and evidences of property held by such trustees. City and town auditors shall include in their annual reports a report of such auditing and investigation; and if they discover any fraud or irregularity they shall immediately report the same to the mayor and treasurer of the city or to the selectmen and treasurer of the town.

SECTION 2. It shall be the duty of the trustees designated in section one hereof to give city and town auditors free access to their accounts, funds, securities and evidences of property; and any such trustee who refuses to exhibit his trust accounts, funds, securities and evidences as aforesaid shall be subject to a fine of not less than fifty nor more than two hundred dollars.

SECTION 3. This act shall be construed as applying only to property held in trust for public uses. [*Approved May 9, 1904.*]

Under the provisions of the foregoing Act, I hereby certify that I have examined the accounts, vouchers and securities belonging to the Trust Funds held for public uses and find them correct and in excellent condition.

Attest,

HARRY T. UPHAM, *City Auditor.*

CEMETERY FUND FOR PERPETUAL CARE OF LOTS.

Held in trust by the City, comprising sums received from the proprietors of lots in Cambridge Cemetery for the perpetual care of their lots therein. The fund is almost all invested in City of Cambridge registered bonds First established in 1860.

Amount of Fund, Dec. 1. 1904	$62,582 10	
Received in 1905, from proprietors of lots . . .	2,732 13	
		$65,314 23
Invested as follows, viz.:—		
City of Cambridge registered bonds	$64,350 00	
Deposited in Cambridgeport Savings Bank . .	964 23	
		65,314 23
Interest received during the year ending Nov. 30, 1905, and paid for care of lots		$2,294 37

CEMETERY FUND: DEEDS IN TRUST.

Held in trust by the City, comprising sums received from the proprietors of lots in Cambridge Cemetery for the furtherance of certain trusts mentioned in conveyances of lots to the City in trust.

The fund amounts to $132 00, and was first established in March 11, 1901.

Deposited in Cambridgeport Savings Bank . . .	$132 00

THE BRIDGE CHARITABLE FUND.

Founded by the late Levi Bridge, of Cambridge, in his life time, by a deed of trust dated August 12, 1875, and upon his death (April 15, 1876) the amount of said fund came into the hands of the City. In October, 1877, Mr. Samuel F. Bridge, a relative of the founder, gave a sum sufficient to double the amount. When the fund reached two thousand dollars one third of the income was to be added to the principal and two-thirds paid over annually to the Overseers of the Poor, to be expended for the deserving poor of Cambridge. The trustees consist of the Mayor, the President of the Board of Aldermen, and the President of the Common Council.

Deposited in Cambridgeport Savings Bank, viz :—		
To the credit of the trustees	$4,683 97	
To the credit of the Overseers of the Poor	523 20	
Total		$5,207 17

CITIZENS' SUBSCRIPTION FUND. ($5,500.00.)

In 1889, a committee of citizens raised by subscription a fund to enable the trustees to purchase a large number of books at the time the new public library building was opened. The unexpended balance (fifty-five hundred dollars), was invested and the income is used for the same purpose.

Balance in bank, Nov. 30, 1904	$84 02	
Receipts	238 70	
		$322 72
Expenditures		307 87
Balance on deposit		$14 85
The principal is invested in Cambridge Sewer Bonds		5,500 00

CUMMINGS LEGACY. ($2,000.00.)

As provided in the will of Daniel P. Cummings, who died May 3, 1889, the sum of two thousand dollars was paid over to the trustees of the Public Library, the annual income to be expended by said trustees in the purchase of non-sectarian books for the Public Library.

Balance on deposit, Nov. 30, 1904	$14 50	
Receipts	80 00	
		$94 50
Expended		93 90
Balance on deposit		$0 60
The principal is invested in Cambridge Water Bonds		2,000 00

FAY LEGACY. ($1,000.00.)

In accordance with the provisions of the will of Isaac Fay, who died December 29, 1872, the sum of one thousand dollars was paid to the Trustees of the Dana Library (now the Cambridge Public Library) for the time being, "which sum shall be safely invested by said trustees, and the income thereof appropriated to the purchase of books for said Library"

Balance on deposit, Nov. 30, 1904	$2 92	
Receipts	35 00	
		$37 92
Expenditures		30 10
Balance on deposit		$7 82
The principal is invested in a Cambridge Bond		1,000 00

WILLIAM E. SAUNDERS FUND. ($7,382.11.)

In accordance with the will of Abigail L. Prentiss, the residue, after the termination of certain annuities, was paid to the Trustees of the Cambridge Public Library, the annual income to be used for the purchase of books to be placed in the William E. Saunders alcove, and for the care of the same. This alcove is assigned to books on genealogy.

Balance on deposit, Nov. 30, 1904	$72 25	
Receipts	245 00	
		$317 25
Expenditures		250 15
Balance on deposit		$67 10
The principal is invested as follows, viz :—		
Cambridge Bonds	$7,000 00	
Cambridgeport Savings Bank	382 11	
		$7,382 11

JAMES A. WOOLSON FUND. ($5,000.00.)

By the bequest of James A. Woolson the sum of five thousand dollars was paid to the Trustees of the Cambridge Public Library, the income only to be used for the purchase of books. In each book purchased, there is placed an appropriate book-plate.

Receipts	$112 50
Expenditures	107 16
Balance on deposit	$5 34
The principal is invested in Cambridge Bonds	5,000 00

SARAH E. RUSSELL FUND. ($814.41.)

As provided in the will of Sarah E. Russell, of Cambridge, who died October 6, 1897, the sum of eight hundred fourteen dollars and forty-one cents was paid to the City by the executors of the will, "the income therefrom to be annually expended in or towards providing a Christmas tree or Christmas gifts and entertainments for the inmates at the time of the Cambridge Almshouse." Mrs. Russell was the widow of Hon. Charles Theodore Russell, and the mother of Hon. William E. Russell, both of whom served the City as Mayor.

Amount on deposit in Cambridgeport Savings Bank	$814 41
Interest paid, as per provision of bequest.	

SINKING FUNDS.

CAMBRIDGE BRIDGE.

Amount of Fund Nov. 30, 1904	$22,027 50
Interest accumulations (1905)	665 78
Appropriation for 1905	14,000 00
Amount of Fund Nov. 30, 1905	$36,693 28

HARVARD BRIDGE.

Amount of Fund Nov. 30, 1904	$165,075 10
Interest accumulations (1905)	4,989 39
Appropriation for 1905	8,800 00
Amount of Fund Nov. 30, 1905	$178,864 49

HOSPITAL.

Amount of Fund Nov. 30, 1904	$456 80
Interest accumulations (1905)	13 81
Appropriation for 1905	225 00
Amount of Fund Nov. 30, 1905	$695 61

METROPOLITAN PARK ASSESSMENT.

Amount of Fund Nov. 30, 1904	$2,054 60
Interest accumulations (1905)	62 10
Appropriation for 1905	1,012 00
Amount of Fund Nov. 30, 1905	$3,128 70

PARK.

Amount of Fund Nov. 30, 1904	$185,290 10
Interest accumulations (1905)	5,600 39
Appropriation for 1905	23,386 67
Amount of Fund Nov. 30, 1905	$214,277 16

CLAY LAND.

Amount of Fund Nov. 30, 1904	$39,805 95
Interest accumulations (1905)	1,203 13
Appropriation for 1905	5,335 00
Amount of Fund Nov. 30, 1905	$46,344 08

IMPROVED SEWERAGE.

Amount of Fund Nov. 30, 1904	$23,316 30
Interest accumulations (1905)	704 74
Appropriation for 1905	7,678 00
Amount of Fund Nov. 30, 1905	$31,699 04

CAMBRIDGE BRIDGE SPECIAL.

Appropriation for 1905	$616 00

SEPARATE SYSTEM OF DRAINAGE.

Appropriation for 1905	$550 00

GENERAL.

Amount of Fund Nov. 30, 1904	$435,317 25
Interest accumulations (1905)	20,193 78
Appropriation for 1905	99,804 50
	$555,315 53

EXPENDED.

For Commissioners of Sinking Funds	223,000 00
Amount of Fund Nov. 30, 1905	$332,315 53

WATER LOAN, SINKING FUND.

Amount of Fund Nov. 30, 1904	$ 1,218,686 74
Interest accumulations (1905)	42,619 60
Appropriation for 1905	121,522 50
Amount of Fund Nov. 30, 1905	$1,382,828 84

COMMISSIONERS OF SINKING FUNDS.

Amount of Funds Nov. 30, 1904		$873,343 60

RECEIVED.

From City Treasurer, appropriations for 1905 :—		
Cambridge Bridge	$14,000 00	
Cambridge Bridge Special	616 00	
Clay Lands	5,335 00	
General	99,804 50	
Harvard Bridge	8,800 00	
Improved Sewerage	7,678 00	
Separate System of Drainage	550 00	
Parks	23,386 67	
Hospital	225 00	
Metropolitan Park Assessment	1,012 00	
		161,407 17
Interest accumulations		33,433 12
		$1,068,183 89

EXPENDED.

For matured bonds as follows :—		
Cemetery Loan, due Aug 1, 1905	$65,000 00	
Sewer Loan, due July 1, 1905	144,000 00	
Street Widening Loan, due July 1, 1905	14,000 00	
		223,000 00
Amount of Fund Nov. 30, 1905		$845,183 89

TRUSTEES OF SINKING FUND OF WATER WORKS.

Amount of Fund Nov. 30, 1904	$1,218,686 74

RECEIVED.

From City Treasurer for amount due and appropriated by the City Council	121,522 50
Interest accumulations	42,619 60
Amount of Fund Nov. 30, 1905	$1,382,828 84

TAXES.

The amount of taxes assessed by the Board of Assessors on the real and personal estates and polls of Cambridge, for the year 1905, was as follows:—

Valuation of real estate		$87,851,500 00
Valuation of personal estate		15,994,100 00
		$103,845,600 00
Assessed at $19 00 per $1,000 gives		$1,973,066 40
26,696 polls at $2		53,392 00
Bank stock (non-residents separately assessed)		4,123 00
		$2,030,581 40
The tax is divided as follows:—		
For City purposes*		$1,604,290 04
County Assessments		106,119 75
Overlay		38,217 99
State Assessments:—		
State charge for non-resident bank stock		4,123 00
State	$129,240 00	
Sewerage	89,341 00	
Parks	39,570 87	
Armory	10,348 61	
Grade Crossings	9,330 14	
		277,830 62
		$2,030 581 40
Increase in number of polls since last year:—		
728 polls at $2		$1,456 00
Increase in real estate valuation		370,400 00
		$371,856 00
Decrease in personal valuation		1,352,400 00
Loss in valuation since last year		$980,544 00
Number of houses in 1905		13,892.07
Number of horses assessed		4,077
Number of cows assessed		123
Number of swine assessed		52
Number of mules assessed		20
Number of hens assessed		100

*To meet the City expenses the income from various departments is added to this sum raised by taxation.

POLLS AND VALUATION OF POLLS AND ESTATES, MAY 1, 1903.

Wards.	Polls.	Valuation of Polls.	Personal.	Real Estate.	Total Real and Personal	Dwellings.	Total Tax.
One.....	1,974	$3,948 00	$1,511,050	$8,277,700	$9,788,750	814	$169,377.875
Two.....	1,861	3,722 00	427,600	3,071,300	3,498,900	787	62,853.41
Three.....	2,880	5,760 00	198,000	3,639,800	3,837,800	1,190 1-2	70,618 82
Four.....	3,006	6,012 00	1,745,000	7,266,500	9,011,500	1,383	158,306.35
Five.....	2,276	4,552 00	2,182,780	7,564,600	9,747,380	1,099 1-2	169,282.722
Six.....	3,197	6,394 00	1,181,400	10,290,600	11,472,000	1,609	200,270.80
Seven.....	2,788	5,576 00	1,505,600	7,088,100	8,593,700	1,759 1-2	150,809.53
Eight.....	2,066	4,132 00	2,428,200	12,499,400	14,927,600	1,321	256,408.44
Nine.....	1,865	3,730 00	4,862,580	13,876,100	18,738,680	1,421	320,413.692
Ten.....	1,523	3,046 00	1,244,800	7.528,100	8,772,900	1,090	151,308.01
Eleven.....	2,313	4,626 00	421,500	5,961,200	6,382,700	2,358 1-2	112,493.63
Totals.....	25,74 9	$51,498 00	$17,708,510	$87,063,400	$104,771,910	14,833	$1,822,143.279

POLLS AND VALUATION OF POLLS AND ESTATES, MAY 1, 1904.

Wards.	Polls.	Valuation of Polls.	Personal.	Real Estate.	Total Real and Personal	Dwellings.	Total Tax.
One.....	1,784	$3,568 00	$1,250,500	$8,519,500	$9,770,000	814	$178,451.00
Two.....	1,676	3,352 00	374,900	3,088,200	3,463,100	787	65,341.49
Three.....	2,968	5,936 00	174,500	3,650,200	3,824,700	1,185	74,398.13
Four.....	3,046	6,092 00	1,742,700	7,210,800	8,953,500	1,359	166,359.65
Five.....	2,334	4,668 00	2,359,520	7,637,000	9,996,520	1,134 1-2	183,605.708
Six.....	3,368	6,736 00	1,193,300	10,482,200	11,675,500	1,605	215,727.45
Seven.....	2,799	5,598 00	1,518,900	7,068,500	8,587,400	1,735 5-8	159,312.46
Eight.....	2,312	4,624 00	2,382,600	12,390,100	14,772,700	1,315	269,055.33
Nine.....	1,886	3,772 00	4,685,980	13,970,500	18,656,480	1,436	337,722.992
Ten.....	1,519	3,038 00	1,190,900	7,523,900	8,714,800	1,093	159,032.92
Eleven.....	2,276	4,552 00	472,700	5,940,200	6,412,900	1,334 1-2	119,342.91
Totals.....	25,968	$51,936 00	$17,346,500	$87,481,100	$104,827,600	13,858 5-8	$1,928,350.040

POLLS AND VALUATION OF POLLS AND ESTATES, MAY 1, 1905.

Wards.	Polls.	Valuation of Polls.	Personal.	Real Estate.	Total Real and Personal	Dwellings.	Total Tax.
One.....	1,912	$3,824 00	$1,250,400	$8,831,900	$10,082,300	800	$195,387.70
Two.....	1,632	3,264 00	348,600	3,077,000	3,425,600	782	68,350.40
Three.....	2,989	5,978 00	166,200	3,636,700	3,802,900	1,173 1-5	78,233.10
Four.....	3,017	6,034 00	1,583,085	7.177,700	8,760,785	1,358	172,488.915
Five.....	2,395	4,790 00	1,530,750	7,682,600	9,213,350	1,167 1-2	179,843.65
Six.....	3,513	7,026 00	1,082,700	10,592,200	11,674,900	1,601	228,849.10
Seven.....	2,928	5,856 00	1,587,400	7,076,800	8,664,200	1,745	170,475.80
Eight.....	2,371	4,742 00	2,393,300	12,272,500	14,665,800	1,310	283,392.20
Nine.....	1,966	3,932 00	4,470,965	13,953,400	18,424,365	1,449	353,994.935
Ten.....	1,569	3,138 00	1,095,400	7,647,600	8,743,000	1,104	169,255.00
Eleven.....	2,404	4,808 00	485,300	5,903,100	6,388,400	1,403	126,187.60
Totals.....	26,696	$53,392 00	$15,994,100	$87,851,500	$103,845,600	13,892 7-10	$2,026,458.40

Statement of the valuations of the personal property and real estate of the City of Cambridge, with the number of polls, dwellings, and rate of taxation for the past sixteen years :—

Year.	Polls.	Personal.	Real Estate.	Total.	Dwellings.	Rate per $1,000.
1890	19,221¾	$15,339,925	$52,235,000	$67,574,925	10,615	$15 60
1891	20,731¼	16,508,770	54,167,914	70,676,684	10,932	15 50
1892	22,013¼	17,687,595	56,668,100	74,355,695	11,359	15 00
1893	22,752	17,511,089	58,782,900	76,293,989	11,768	16 40
1894	22,172	16,658,320	60,877,300	77,535,620	12,262	15 80
1895	22,781	16,607,360	64,303,700	80,911,060	12,305	15 70
1896	23,847	15,914,995	67,835,100	83,750,095	12,723	15 10
1897	24,407	16,302,545	70,339,200	86,641,745	13,217	17 50
1898	24,628	16,642,990	72,908,100	89,551,090	13,473	16 40
1899	24,995	16,991,995	74,550,800	91,542,795	13,588	17 10
1900	25,117	17,865,230	76,600,700	94,465,930	13,713	16 90
1901	25,306	17,648,575	78,568,300	96,216,875	13,846½	16 90
1902	25,680	17,742,985	80,396,900	98,139,885	13,889⅔	18 30
1903	25,749	17,708,510	87,063,400	104,771,910	13,833	16 90
1904	25,968	17,346,500	87,481,100	104,827,600	13,858	17 90
1905	26,696	15,994,100	87,851,500	103,845,600	13,893	19 00

Abatements upon taxes for the past sixteen years, and amount of tax uncollected December 1, 1905 :—

Year.	Total Tax.	Total Abatements.	Amount of Tax uncollected December 1, 1905.
1890	$1,099,741 38	$20,966 82	.....
1891	1,143,712 67	21,343 12	.....
1892	1,240,186 50	21,636 54	.....
1893	1,303,639 84	24,678 10	.....
1894	1,278,899 72	26,926 07	.....
1895	1,324,613 76	19,427 40	.....
1896	1,321,932 65	17,922 54	.....
1897	1,574,047 50	22,081 73	$26,829 17
1898	1,527,863 88	27,566 98	27,079 80
1899	1,623,592 35	35,317 61	21,750 42
1900	1,654,588 36	33,005 90	22,924 10
1901	1,683,690 84	24,390 38	21,820 62
1902	1,854,557 82	30,013 44	25,787 17
1903	1,828,456 95	41,525 33	22,352 27
1904	1,934,772 56	50,088 47	37,010 03
1905	2,031,457 20	48,886 73	417,515 90

ABATEMENT CERTIFICATES ALLOWED BY BOARD OF ASSESSORS.

	Real.	Personal.	Polls.	Total.
Taxes of 1899		$5 09		$5 09
" " 1900		1 69	$2 00	3 69
" " 1901			2 00	2 00
" " 1902		16 47	46 00	62 47
" " 1903	$709 84	480 53	74 00	1,264 37
" " 1904	11,898 32	1,081 64	196 00	13,175 96
" " 1905	17,868 06	8,499 76	194 00	26,561 82
Street Watering				30 78
	$30,476 22	$10,085 18	$514 00	$41,106 18

The valuation of estates in this City, for the years hereinbefore mentioned, are the same as originally made by the Board of Assessors during those years and the same figures were reported by that Board to the Tax Commissioners for each of the years respectively. These valuations were subject to changes in each year, after such report was made, as shown by the following :—

Net valuations of estates in the City of Cambridge, for the past three years, after adding the amounts of all supplementary warrants and deducting therefrom all abatements :—

Year.	Total Valuation.	Abatements.	Net Valuation.
1903	$104,911,076	$2,789,631	$102,121,445
1904	104,848,700	2,305,112	102,543,588
1905	103,858,400	1,387,780	102,470,620
	$313,618,176	$6,482,523	$307,135,653

BORROWING CAPACITY.

The average net valuation of the City of Cambridge for the years 1903, 1904 and 1905			$102,378,551

This last sum represents the amount upon which the limit of the rate of taxation, and also of municipal indebtedness is fixed under the provisions of Chapter 312 of the acts of the year 1885.

2½ per cent on same is			$2,559,463 77
The entire City Debt is		$6,178,850	
Of this amount the following loans are not within the legal debt limit, being exempted by the following Acts of the Legislature:—			
Cambridge Bridge Loan.			
Acts of 1898, Chapter 467 . . .	$1,300,000		
Cambridge Bridge Special Loan.			
Charles River Dam Acts of 1904, Chapter 158 . . .	28,000		
Clay Land Loan.			
Acts of 1896, Chapter 175 . . .	97,000		
Harvard Bridge Loan.			
Acts of 1887, Chapter 282 Acts of 1888, Chapter 73 Acts of 1891, Chapter 311 . .	400,000		
Park Loan.			
Acts of 1892, Chapter 341 Acts of 1893, Chapter 337 Acts of 1894, Chapter 89 Acts of 1897, Chapter 469 Acts of 1899, Chapter 221 . .	1,484,000		
Sewer Loan.			
Acts of 1899, Chapter 189 Acts of 1899, Chapter 473 . .	399,000		
Acts of 1903, Chapter 383 . .	50,000		
Hospital Loan.			
Acts of 1895, Chapter 99 . . .	6,000		
Metropolitan Park Assessment Loan.			
Acts of 1902, Chapter 325 . . .	46,000		
		3,810,000	
		$2,368,850	
The entire Sinking Fund is . . .	$845,183 89		
Of this amount there should be deducted on account of Exempted Loans as follows:—			
Cambridge Bridge . .	$36,693 28		
Harvard Bridge . .	178,864 49		
Parks	214,277 16		
Amounts carried forward .	$429,834 93	$845,183 89	$2,368,850 $2,559,463 77

Amounts brought forward	$429,834 93	$845,183 89	$2,368,850 00	$2,559,463 77
Clay Lands	46,344 08			
Improved Sewerage	31,699 04			
Hospital	695 61			
Metropolitan Park Assessment	3,128 70			
Cambridge Bridge Special	616 00			
Separate System of Drainage	550 00			
		512,868 36		
Net Sinking Fund			332,315 53	
Net City Debt December 1, 1905				2,036,534 47
Borrowing capacity for City purposes December 1, 1905				$522,929 30

ACTS OF 1885, CHAPTER 312.

"AN ACT TO LIMIT MUNCIPAL DEBT OF AND THE RATE OF TAXATION IN CITIES.

"Be it enacted, etc., as follows:—

"SECTION 1. The taxes assessed on property in any city, except the City of Boston, exclusive of State Tax, County Tax and sums required by law to be raised on account of the City Debt, shall not exceed in any year twelve dollars on every one thousand dollars of the average of the assessors' valuations of the taxable property therein for the preceding three years, the valuation being first reduced by the amount of all abatements allowed thereon, previous to the thirty-first day of December in the year preceding said assessment, and any order or appropriation requiring a larger assessment than is herein limited shall be void.

"SECT. 2. The limit of indebtedness of cities shall hereafter be two and one-half per cent. on the average valuation prescribed in Section one of this act."

TAX LEVY.

Average net valuation for 1903, 1904 and 1905	$102,378,551
Assessed at $12 per $1,000 gives	1,228,542

Which is the legal limit of taxation for municipal purposes for 1905, outside of the Sinking Fund requirements, Interest on the Debt and State and County Tax, unless advantage is taken of the following Legislative Act of 1893:—

ACTS OF 1893, CHAPTER 247.

"AN ACT AUTHORIZING ASSESSORS IN CITIES OF LESS THAN ONE HUNDRED THOUSAND INHABITANTS TO USE THE VALUATION OF THE YEAR PRECEDING AS A BASIS OF TAXATION.

"Be it enacted etc , as follows:—

"SECTION 1. In every city containing less than one hundred thousand inhabitants, the taxes assessed on property, exclusive of State Tax, County Tax and sums required by law to be raised on account of City debt, shall not exceed in any year twelve dollars on every one thousand dollars of the assessors' valuation of the taxable property therein for the preceding year, said valuation being first reduced by the amount of all abatements allowed thereon previous to the thirty-first day of December in the year preceding said assessment, and any order or appropriation requiring a larger assessment than is herein limited shall be void; but the City Council of any city coming within the provisions of this Act may, in any year decide that the taxes assessed shall be raised in accordance with the provisions of Section one of Chapter three hundred and twelve of the Acts of the year eighteen hundred and eighty five."

In which case the net valuation for 1905 being	$102,470,620
Assessed at $12 per $1,000 gives	1,229,647

ESTIMATED RECEIPTS AND ACTUAL RECEIPTS FOR THE YEAR ENDING NOVEMBER 30, 1905.

	Actual.	Estimated.
Bridge Department	$433 33	$519 48
Cemetery Department	17,661 92	14,500 00
City Clerk Department	1,297 70	1,200 00
City Messenger Department	1,440 07	1,700 00
Contingent Fund	168 39	.....
Court Fines	4,441 30	4,500 00
Electrical Department	11 20	200 00
Fire Department	136 35	250 00
Health Department	2,182 24	2,000 00
Interest	16,548 41	16,548 41
Law Department	500 00	500 00
City Home	1,073 19	800 00
Farm	4,964 10	4,500 00
House Offal	11,326 61	11,500 00
Outside Aid	1,399 37	2,000 00
Park Department:—		
Maintenance	40 09	.....
Rents, etc	1,939 85	1,900 09
Bath House, etc	1,703 99	1,971 93
Brown Tail Moth Extermination	1,336 65	1,500 00
Police Department	1,081 04	1,300 00
Public Library	725 85	600 00
Public Property	4,524 23	4,855 00
School Department:—		
Tuition of Non-residents	6,466 00	6,937 74
Supplies	594 96	300 00
Sealer of Weights and Measures	780 95	800 00
Sewer Department:—		
Assessments, etc	6,798 46	5,000 00
Labor and Materials	129 57	100 00
State Aid	14,783 50	15,300 00
Street Department:—		
Maintenance	1,180 80	1,300 00
Paving	11,590 71	16,000 00
Watering	17,482 91	18,600 00
Treasury Department	3,055 67	2,500 00
Water Works	359,035 61	373,000 00
Betterments	66 27	.....
Grade Crossings	3,115 00	3,000 00
Premium on Loans	9,922 71	.....
Licenses	7,684 30	7,500 00
Tax, Corporation	93,918 86	80,000 00
Tax, National Bank	18,530 04	17,000 00
Taxes, Real, Personal and Poll	2,019,620 68	2,030,581 40
Tax, Street Railway	68,914 72	68,914 72
	$2,718,613 60	$2,719,678 68

EXPENDITURES OF THE DEPARTMENTS FROM 1900 TO 1905 (INCLUSIVE).

NAME OF DEPARTMENT.	1900	1901	1902	1903	1904	1905
Assessors' Department	$13,498 95	$14,158 06	$13 430 51	$13,806 89	$15,840 02	$15,791 84
Auditing Department	3,571 13	3,649 85	3,773 65	4,046 72	4,278 75	4,162 50
Board of Survey	.....	269 26	138 93	96 50	174 00	114 18
Bridge Department—Boston Bridges	17,717 10	17,946 43	42 770 07	17,140 17	16,794 63	15,858 61
Cambridge Bridge	57,652 84	188 986 03	202,095 67	154.129 10	354,442 45	240,227 35
Car Tickets to and from Rifle Range	232 50	295 42	223 24	298 86	299 31	613 49
Cemetery Department	21,603 34	20,415 21	18,506 45	16,573 12	18,078 82	17,992 08
City Clerk Department	9,042 78	9,113 18	7,566 75	7,594 68	8,234 71	8,425 84
City Council Expenses	1,558 55	1 979 09	1,812 18	5,385 81	4,738 85	8,887 98
City Messenger Department	2,562 75	2,599 92	2,030 45	1,644 24	1,759 31	1,980 00
Postage and Stationery	3,021 32	3,199 56	1,192 09	1,085 11	1,399 63	1,698 44
Civil Service	249 60	249 80	249 95	245 05	244 87	250 00
Clerk of Committees Department	3,970 47	3,990 23	3,999 02	3,6 7 87	3,727 50	3,649 94
Contingent Fund	13,466 29	7,522 57	6,496 78	4,545 21	.....	.....
Celebrations:—						
Independence Day	1,571 19	1,800 00	.....	1,465 44	1,692 40	1,629 63
Labor Day	.....	.....	.....	400 00	400 00	399 84
Memorial Day	1,100 00	1,100 00	1,100 00	1,100 00	1,100 00	1,100 00
Damage to Persons and Personal Property	7,650 89	3,878 88	3,256 72	3,499 85	1,487 93	1,739 25
Election Expenses:—						
City Clerk	5,333 55	5,699 31	6,224 92	6.380 19	9,693 28	8,857 05
Registrars of Voters	3,464 30	3,423 04	3,162 95	3,895 05	4,453 08	4,188 70
Superintendent of Buildings	1,398 71	1,307 60	3,288 68	1,699 68	2,393 75	2,393 27
Electrical Department:—						
Street Lighting	71,998 78	72,775 75	74,249 64	75,176 66	76,787 97	78,578 77
Wire Account	10,575 99	10,499 95	9,998 71	9 494 12	13,460 41	13,403 09
Engineering Department	11,187 79	11 050 64	10,257 33	10,021 03	9,892 54	9,164 38
Executive Department	5,263 48	5,394 49	5,388 00	5,740 92	5,894 15	5,990 00
Fire Department	90,362 64	91,120 04	93,083 78	94,521 98	96,515 55	114,498 01
Land for Engine House	.....	.....	.....	2,815 00	.....	.....
New Engine House	.....	.....	.....	.....	17,622 54	12,377 13
Health Department	19,995 57	18,499 95	16,933 81	20,510 27	21,143 36	20,166 69
Land for Hospital	.....	.....	.....	.....	35 00	225 00
Small-pox Hospital	.....	.....	47,007 68	9,630 89	870 82	848 48
Diphtheria Hospital	7,249 89	20,489 73	9,999 58	8,163 64	8,194 22	8,139 61
Inspection of Milk and Vinegar	1,499 37	1,670 25	1,674 28	1,599 85	1,661 72	2,139 49
Inspection of Animals	798 05	797 45	777 00	794 25	769 64	773 40
Interest	191,915 96	198,193 03	214,486 76	227,589 63	230 394 87	236,240 83
Land Damages	15,752 94	14,494 90	35,599 24	29,961 55	6,193 35	8,214 71
Grade Crossings	.....	.....	.....	.....	43,065 00	.....
Law Department	5,038 59	4,980 89	5,016 01	4,995 00	4,963 17	4,800 00
Overseers of the Poor:—						
City Home	21,624 69	22,434 44	18,961 05	19,276 44	19,293 11	19,986 76
City Home Hospital	.....	.....	.....	.....	.....	1,748 72
Farm	4,963 57	4,992 91	5,266 90	5,012 41	4,957 25	4,977 69
House Offal	26,080 54	27,615 49	28,319 80	30,848 01	31,011 64	33,635 00

EXPENDITURES OF THE DEPARTMENTS FROM 1900 TO 1905 (INCLUSIVE)—*Concluded.*

NAME OF DEPARTMENT.	1900	1901	1902	1903	1904	1905
Overseers of the Poor—Outside Aid	$51,986 02	$50,086 83	$42,699 61	$43,147 70	$25,363 38	$16,746 78
Salary of City Physician	1,500 00	1,500 00	1,500 00	1,500 00	1,500 00	1,500 00
Park Department:—						
Construction and Lands	84,988 52	136,270 29	55,528 94	52,047 05	25,576 13	50,467 17
Baths and Lockers				2,500 00		
Maintenance:—						
Bath House	2,817 75	2,370 32	2,291 98	2,193 95	1,696 30	2,271 04
Brown Tail Moth Extermination			4,799 06	3,639 13	6,699 57	11,324 05
Commons, Squares, etc	4,586 90	5,505 82	5,045 53	4,997 16	4,999 90	4,999 70
Cambridge Field and Shelter	5,713 77	6,110 40	5,111 97	4,499 79	5,399 14	5 999 54
General Account	304 89	736 06	399 28	548 13	599 99	598 80
Sections A, B, D, F and Rindge Field	141 70	282 81	2,434 20	2,979 33	2,699 71	3,499 81
Sections G and H	3,206 14	3,713 16	2,941 47	3,280 84	3,298 10	3,499 67
Shade Trees	4,696 38	5,026 87	6,210 56	4,949 81	4,999 70	4,999 23
Plumbers' Examiners	115 00	115 00		86 00	87 80	72 92
Police Department	123,774 68	128,458 58	131,251 70	134,968 00	143,271 60	152,417 52
Public Library Department:—						
Main Library	18,998 62	18,998 75	17,992 70	17,965 25	18,690 93	20,698 39
East Cambridge Branch	1,268 84	1,319 85	1,346 83	2,395 26	1,799 09	1,879 38
Addition		303 40	28,337 22	987 59	371 79	
Public Property:—						
City Buildings	19,407 56	19,950 98	17,328 69	15,725 58	24,650 36	20,746 68
Inspection of Buildings	5,446 70	5,887 56	6,391 99	6,104 73	6,718 96	6 930 69
School Houses	130,033 55	105,103 60	65,684 78	82,420 35	94,329 86	88,929 99
Armory, Beech Street		2,280 00	61 00	97 58	124 81	
Washington School	12,815 47	59,003 64	3,275 59	19,137 41	4,698 05	
Kelley School		9,576 20	18,958 66	59,980 67	789 87	88 92
Fletcher School			11,257 75	31,025 35	48,973 55	
Roberts School						20,857 49
Houghton School					8,311 75	87,815 26
Addition to Rindge Manual Training School					7,144 98	19,551 01
Rifle Range	154 05	147 96	341 28	326 73	543 50	606 51
Voting Booth			395 00			
School Department:—						
Care of Truants	1,704 20	1,818 69	1,847 10	1,786 22	2,184 43	1,888 26
Flags	202 00	123 00	99 15	99 28	105 60	71 95
Incidentals	1.598 96	1,935 70	1,554 35	1,603 93	1.942 32	1,586 16
Salaries	333,191 34	341,684 05	349,986 25	357,291 30	365,035 39	376,264 39
Text Books and Supplies	18,998 90	20,786 75	19,220 94	15,884 86	28,538 27	22,276 20
Transportation of Pupils			300 00	309 00	321 00	368 00
Vacation Schools	1,996 11	1,885 48	1,016 97		1,957 43	1,679 64
Sealer of Weights and Measures	1,694 97	1,963 73	2,772 22	2,477 11	2,274 77	2,513 18
Sewer Department:—						
Construction General	15,206 10	9,740 58	7,509 72	27,156 29	49,555 00	19,840 12
Improved Sewerage	73,619 11	76,546 14	61,997 27	47,821 13	35,730 95	55,480 74
Maintenance General	19,755 90	18,928 99	17,495 00	17,999 74	17,520 11	17,652 59

Separate System of Drainage					19,551 26	23,195 32
Dredging at Outlet of Bridge Street Sewer				2,672 78		
Sinking Fund Officials	365 00	365 00	405 00	405 00	365 00	365 00
Sinking Fund	151,324 00	158,851 83	158,841 83	156,510 42	157,397 58	161,407 17
State Aid	25,413 88	25,410 73	25,493 24	24,993 30	25,657 32	26,846 05
Street Department:—						
Bridges	2,462 28	3,399 46	3,500 00	3,200 00	3,097 77	5,897 86
Cleaning Streets	34,499 79	29,999 64	30,033 25	34,995 63	48,998 50	47,496 02
Collection of Ashes	27,999 94	28,829 82	28,999 44	28,797 78	32,096 98	32,499 23
Construction	1,365 61	14,015 25	33,343 21	3,272 35	46,250 65	59,257 67
Maintenance	81,624 20	73,269 17	70,314 76	69,077 82	74,230 47	74,477 86
Paving, Edgestones and Sidewalks	24,993 42	24,999 90	24,999 95	29,998 82	34,999 00	29,996 35
Crossings and Repairs	9,999 72	9,999 48	9,997 85	10,000 00	4,997 31	1,484 01
Rebuilding Streets	73,010 26	76,700 20	40,368 03	14,317 30	56,467 84	52,394 28
Watering Streets	26,000 00	26,683 84	28,998 73	27,902 12	28,000 00	28,000 00
Treasury Department	15,478 14	15,596 05	15,378 85	14,943 23	16,045 63	17,456 67
Water Department:—						
Construction General	16,999 60	31,698 71	16,999 14	8,429 25	13,600 99	14,541 14
Meters			9,996 85	2,212 51	3,999 12	4,343 51
Construction Fresh Pond	55 25					
Hobbs' Brook Account:—						
General	2,585 65		3,482 83	189 61	76 84	63 22
Land Settlements			1,964 77	11,540 00	221 00	1,628 10
Services of City Solicitor	500 00	500 00	500 00	500 00	500 00	500 00
Stony Brook Main and Hobbs' Brook Conduit				3,482 18	3,454 03	230,156 60
Maintenance	47,708 93	37,316 75	32,694 65	30,053 38	37,137 00	36,320 30
Metropolitan Water					14,000 00	28,458 50
Pumping	20,709 48	15,071 54	16,200 00	20,704 71	17,298 19	15,060 92
Payson Park Reservoir		819 54	830 32	801 81	784 33	1,483 09
Hobbs' Brook Reservoir		1,637 58	1,499 01	1,208 07	1,468 64	1,756 71
Fresh Pond Reservoir		20,471 60	8,232 79	5,840 70	9,996 93	11,799 28
Fresh Pond Grading					12,500 00	4,285 50
Stony Brook Reservoir	1,507 58	2,722 17	2,842 10	4,025 28	2,999 96	2,195 21
Ice for Fountains		447 11	461 47	460 56	460 35	484 29
Interest	127,179 00	127,109 00	129,579 00	128,806 50	126,126 50	135,506 50
Sinking Fund	125,089 12	122,352 80	123,000 29	123,145 78	121,522 50	121,522 50
Rates, Fines, Supplies, Abatements	5,130 62	3,793 75	3,985 63	3,756 45	3,917 88	2,885 33
Refunds	2,941 95	2,405 28	3,000 00	3,169 06	3,373 75	1,879 07
Rents	3,200 00	1,200 00	1,200 00	1,200 00	1,200 00	1,200 00
	$2,421,046 66	$2,690,420 77	$2,620,896 33	$2,545,380 84	$2,915,257 01	$3,118,892 70
Taxes:—						
Abatements	33,005 90	24,390 38	33,047 28	41,525 33	55,368 54	48,866 73
Armory			4,154 46	9,766 68	10,445 68	10,348 61
County	85,997 56	100,429 89	100,184 86	104,400 56	109,201 21	106,119 75
Grade Crossings					7,977 69	9,330 14
Lien Account						316 15
Liquor License						15 00
Metropolitan Park			96,478 96	34,541 40	38,064 53	39,570 87
Metropolitan Sewer	73,018 92	72,344 93	78,252 17	79,836 65	86,891 58	89,341 00
National Bank	7,167 54	6,935 25	7,802 80	6,740 92	6,650 66	4,459 99
State	48,195 00	55,790 00	47,820 00	79,700 00	80,775 00	129,240 00
	$2,668,431 58	$2,950,311 22	$2,988,636 86	$2,901,892 38	$3,310,631 90	$3,556,500 94

EXPENDED FOR SALARIES, CLERICAL ASSISTANCE AND LABOR.

NAME OF DEPARTMENT.	1900	1901	1902	1903	1904	1905
Assessors' Department	$12,363 87	$12,775 83	$12,170 95	$12,307 19	$13,249 95	$13,244 88
Auditing	3,145 00	3,154 38	3,273 65	3,746 72	3,878 75	3,812 50
Board of Survey	.....	83 33	33 33	75 00	75 00	75 00
Boston Bridges	8,757 94	9,659 16	10,002 76	10,438 49	10,651 52	9,873 78
Cambridge Bridge	8,124 01	11,789 12	12,423 70	13,321 38	13,180 24	11,977 04
Cambridge Bridge Approach	.....	.....	.....	.....	.....	16,045 77
Cemetery Department	14,921 78	15,650 67	15,008 22	13,973 92	14,901 60	15,692 91
City Clerk's Department	6,269 91	6,298 50	6,007 06	5,995 25	6,331 45	6,526 69
City Council Expenses	583 30	600 00	600 00	600 00	600 00	600 00
City Messenger's Department	2,200 67	2,303 33	1,733 31	1,372 60	1,559 31	1,780 00
Civil Service Department	200 00	200 00	200 00	200 00	200 00	200 00
Clerk of Committees' Department	3,600 00	3,600 00	3,600 00	3,362 94	3,333 00	3,300 00
Election Expenses, City Clerk	3,459 50	3,721 75	3,482 75	3,401 64	6,185 50	5,302 20
" " Registrars of Voters	2,391 20	2,478 75	2,582 00	1,957 64	3,062 50	2,943 30
Electrical Department, Street Lighting	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00	1,000 00
" " Wire Account	7,455 52	7,104 07	7,079 59	6,494 41	7,622 00	8,103 00
Engineering Department	10,002 80	9,869 02	9,251 96	9,154 66	8,719 57	8,285 94
Assessors' Plans	278 18	300 00	229 35	176 62	267 62	298 79
Executive Department	4,797 50	4,860 17	4,864 00	5,362 08	5,480 00	5,490 00
Fire Department	74,637 89	76,189 49	77,554 51	78,425 98	78,462 67	83,498 13
Health Department	9,641 53	9,552 50	11,944 78	11,956 85	12,506 79	12,630 00
Diphtheria Hospital	3,947 61	7,644 02	6 298 84	5,425 11	5,316 36	5,483 57
Small-pox Hospital	.....	.....	7,678 25	1,673 51	784 27	782 13
Inspector of Milk and Vinegar	1,320 00	1,320 00	1,343 31	1,334 65	1,363 50	1,570 66
Inspector of Animals	700 00	700 00	700 00	700 00	700 00	700 00
Law Department	4,106 00	4,067 20	4,347 50	4,295 00	4,095 15	4,225 96
Overseers of the Poor:—						
City Home	7,352 73	8,131 53	7,466 77	7,285 91	7,293 11	7,736 76
City Home Hospital	.....	.....	.....	.....	.....	420 25
Farm	3,921 60	4,341 90	4,574 23	4,212 55	4,157 25	4,102 78
House Offal	21,927 15	22,926 39	23,179 50	24,169 50	24,511 64	26,936 62
Outside Aid	4,152 17	4,149 16	3,684 25	3,178 78	2,755 00	2,748 75
City Physician	1,500 00	1,500 00	1,500 00	1,500 00	1,500 00	1,500 00
Park Department	37,863 92	35,248 58	38,341 81	35,431 71	35,267 32	61,013 91
Police Department	118,019 77	122,353 52	125,336 19	128,574 59	136,285 36	145,917 52
Public Library	8,959 32	9,107 45	9,544 01	9,317 23	8,943 08	9,699 08
E. Cambridge Branch	779 00	824 81	927 66	850 69	756 64	849 60
Public Property:—						
City Buildings	10,214 80	10,478 01	10,699 90	8,727 46	8,871 67	9,255 59
Inspector of Buildings	4,443 15	5,012 20	5,500 00	5,400 96	5,819 25	6,031 00
School Houses	32,981 84	34,226 45	33,831 88	34,999 25	36,739 11	37,459 55
School Department, Salaries of Teachers and Officers	333,191 34	341,684 05	349,986 25	357,291 30	365,035 39	376,264 39
Vacation Schools	1,626 00	1,563 00	865 00	.....	1,836 67	1,495 00
Incidentals	425 00	425 00	425 00	425 00	425 00	425 00

Sealer of Weights and Measures	1,347 12	1,404 89	1,787 25	1,849 62	1,832 50	2,063 18
Sewer Department	59,292 35	59,858 30	54,920 53	61,583 97	78,151 65	79,478 53
Sinking Fund Officials	325 00	325 00	325 00	325 00	325 00	325 00
State Aid	900 00	1,099 99	1,100 01	633 97	530 50	500 00
Street Department	130,586 19	144,406 79	145,189 69	138,071 32	173,721 44	171,780 29
Street Sprinkling Contracts	21,265 65	21,858 10	24,299 68	19,011 38	23,353 55	23,742 15
Treasury Department	10,542 26	10,483 76	10,359 33	9,949 00	10,195 63	10,762 52
Water Department	49,918 97	59,487 51	56,076 11	47,428 09	57,737 02	199,401 28
	$1,045,469 54	$1,095,817 68	$1,113,379 78	$1,096,968 32	$1,189,510 53	$1,408,351 00

EXPENDITURES OF THE DIFFERENT DEPARTMENTS FROM 1896 TO 1905, INCLUSIVE.

NAMES OF DEPARTMENTS.	Expended in 1896.	Expended in 1897.	Expended in 1898.	Expended in 1899.	Expended in 1900.	Expended in 1901.	Expended in 1902.	Expended in 1903.	Expended in 1904.	Expended in 1905.
Ambulance Department	$2,452 39	.....	.....	.....	.....	.....	.....	.....	.....	.....
Assessors' Department	12,943 24	$13,077 44	$13,552 25	$13,489 10	$13,498 95	$14,158 06	$13,430 51	$13,983 51	$16,107 64	$15,791 84
Auditing Department	3,567 88	3,511 12	3,489 04	3,470 88	3,571 13	3,649 85	3,773 65	4,046 72	4,278 75	4,162 50
Cemetery Department	20,000 00	19,846 77	19,832 66	19,910 23	21,603 34	20,415 24	18,506 45	16,573 12	18,078 82	17,992 08
City Clerk Department	7,107 04	7,193 53	7,759 82	7,875 84	9,042 78	9,113 18	7,566 75	7,594 68	8,234 71	8,425 84
City Messenger Department	2,763 59	2,799 51	2,859 04	2,555 94	2,562 75	2,599 92	3,222 54	2,729 35	3,158 94	3,678 44
Civil Service Department	249 97	248 07	248 85	247 05	249 60	249 80	249 95	245 05	244 87	250 00
Clerk of Committees' Departm'nt	3,925 34	3,946 56	3,972 39	3,968 90	3,970 47	3,990 23	3,999 02	3,657 87	3,727 50	3,649 94
Contingent Fund	16,139 18	7,966 46	11,064 33	13,099 91	25,944 42	16,940 96	13,293 92	17,100 17	9,419 18	15,702 85
Election Expenses	12,463 99	9,943 08	10,861 47	9,948 85	10,196 56	10,429 95	12,676 55	11,974 92	6,540 11	15,439 02
Engineering Department	14,211 55	12,969 29	11,147 34	11,224 85	11,187 79	11,050 64	10,257 33	9,844 41	9,624 92	9,164 38
Executive Department	5,414 08	5,299 35	5,184 26	5,182 88	5,263 48	5,394 49	5,388 00	5,740 92	5,894 15	5,990 00
Fire Department	85,467 88	78,687 13	80,152 89	84,900 23	90,362 64	91,120 04	93,083 78	97,336 98	96,515 55	126,875 14
Health Department	16,999 55	17,059 35	17,496 64	19,754 04	27,245 46	38,989 68	73,941 07	38,304 80	30,243 40	29,379 78
Inspection of Milk and Vinegar	1,586 24	1,583 90	1,499 56	1,500 00	1,499 37	1,670 25	1,674 28	1,599 85	1,661 72	2,139 49
Inspection of Animals	793 60	796 19	798 12	793 60	798 05	797 45	777 00	794 25	769 64	773 40
Inspection of Wires	11,999 74	10,699 98	11,197 60	14,499 98	10,575 99	10,499 95	9,998 71	9,494 12	13,460 41	13,403 00
Interest	132,099 07	134,396 40	135,795 18	139,432 86	150,015 96	153,313 03	164,606 76	227,589 63	230,394 87	236,240 83
Lamp Department	67,325 31	69,264 96	69,182 20	71,980 42	71,998 78	72,775 75	74,249 64	75,176 66	76,787 97	78,578 77
Law Department	5,197 44	5,189 88	5,192 65	5,632 35	5,038 59	4,980 89	5,046 01	4,995 00	4,963 17	4,800 00
Overseers of the Poor Dept.	105,379 81	106,373 80	103,983 80	104,845 15	106,154 82	106,629 67	96,747 36	99,784 56	82,125 38	78,594 95
Park Department	256,490 43	211,783 90	217,188 89	175,065 82	165,856 05	226,104 06	157,184 66	81,635 19	55,968 54	87,659 01
Plumbers' Examiners' Dept.	101 05	116 40	111 50	98 75	115 00	115 00	.....	86 00	87 80	72 92
Police Department	110,111 14	113,550 42	116,762 59	116,998 35	123,774 68	128,458 58	131,251 70	134,968 00	143,271 60	152,417 52
Public Library	18,493 00	19,823 36	20,078 38	21,224 67	20,267 46	20,622 00	47,676 75	21,348 10	20,861 81	22,577 77
Public Property	176,264 31	222,216 56	258,628 93	332 503 41	167,857 33	201,949 94	123,694 74	214,818 40	214,207 54	244,920 04
School Department	272,481 50	282,400 45	295,673 51	335,372 89	357,691 51	368,233 67	374,024 76	376,974 59	400,084 44	404,134 60
Sealer of Weights and Measures	1,570 52	1,619 73	1,598 46	1,644 02	1,694 97	1,963 73	2,772 22	2,477 11	2,274 77	2,513 18
Sewer Department	106,688 27	64,231 45	52,828 90	84,996 28	108,581 11	105,215 71	87,001 99	95,649 94	122,357 32	116,168 77
Sinking Fund	93,765 00	104,725 00	111,937 50	118,750 00	133,824 00	137,643 50	136,300 16	156,510 42	157,397 58	161,407 17
State Aid	23,209 03	23,491 36	28,751 62	27,218 27	25,413 88	25,410 73	25,493 24	24,993 30	25,657 32	26,846 05
Stationery and Printing	2,939 79	2,847 32	2,869 03	2,983 88	3,021 32	3,199 56	.....	.....	.....	.....
Street Dept. (Roads and Bridges)	323,912 86	412,986 18	249,167 53	326,637 84	373,083 10	509,593 38	551,159 13	422,889 14	749,807 95	595,948 13
Treasury Department	13,995 46	14,415 54	14,282 77	14,699 53	15,478 14	15,596 05	15,378 85	14,943 23	16,410 63	17,456 67
Water Works Department	1,045,529 76	794,197 98	634,583 00	367,048 88	353,607 18	367,545 83	356,468 85	349,520 85	374,638 01	616,069 77
Taxes: — Abatements	17,922 54	22,081 73	27,566 98	35,317 61	33,005 90	24,390 38	33,047 28	41,525 33	55,368 54	48,866 73
Armory	.....	.....	.....	.....	.....	.....	4,154 46	9,7t6 68	10,445 68	10,348 61
County	78,321 11	73,887 84	79,914 80	87,085 65	85,997 56	100,429 89	100,184 86	104,400 56	109,201 21	106,119 75
Grade Crossings	.....	.....	.....	.....	.....	.....	.....	.....	7,977 69	9,330 14
Metropolitan Park	.....	.....	.....	.....	.....	.....	96,478 96	34,541 40	38,064 53	39,570 87
Metropolitan Sewer	.....	137,297 30	56,818 94	74,763 08	73,018 92	72,344 93	78,252 17	79,836 65	86,891 58	89,341 00
National Bank	6,632 77	7,995 91	7,459 91	7,681 26	7,167 54	6,935 25	7,802 80	6,740 92	6,650 66	4,459 99
State	54,600 00	54,600 00	48,195 00	48,195 00	48,195 00	55,790 00	47,820 00	79,700 00	80,775 00	129,240 00
Total	$3,131,115 43	$3,075,103 20	$2,739,688 33	$2,712,598 25	$2,668,431 58	$2,950,311 22	$2,988,636 86	$2,901,892 38	$3,310,631 90	$3,556,500 94

COMPARATIVE STATEMENT BY DECADES FROM 1855 TO 1905.

	1855	1865	1875	1885	1895	1905
Population....	20,637	29,112	47,838	59,660	81,643	97,426
Valuation	$15,437,100 00	$26,085,909 00	$66,623,014 00	$55,346,555 00	$80,911,060 00	$103,845,000 00
City Tax.....	100,604 53	267,708 60	1,060,396 52	804,800 00	1,103,455 30	1,973,066 40
County Tax..	10,137 78	18,280 99	37,580 73	29,381 54	73,887 84	106,119 75
State Tax.....	5,190 00	118,487 00	58,880 00	44,835 00	46,800 00	129,240 00
Tax rate per $1,000.....	7 10	15 00	17 00	15 50	15 70	19 00
Total Expenditures	173,533 58	536,911 82	2,605,267 74	2,354,298 69	3,686,702 54	4,357,233 07
City Debt.....	146,600 00	833,092 00	4,106,843 21	2,361,396 50	3,913,634 23	6,178,850 00
Expenditures by Depts:—						
Bridges.....	890 31	9,007 77	39,068 39	11,829 77	16,297 33	21,756 47
Cemeteries.	6,553 67	16,742 29	19,438 66	80,399 22	16,999 40	17,992 08
Fire Dept...	9,623 70	21,958 74	89,949 99	59,341 15	104,898 59	114,498 01
Lighting Sts	2,987 32	9,062 24	20,919 04	32,263 07	69,926 61	78,578 77
Pauper Dept	8,520 41	21,481 52	79,719 54	56,338 24	100,841 33	78,594 95
Police Dept.	4,499 56	22,833 14	71,093 35	78,357 73	110,784 22	152,417 52
Public Lib'y	.....	1,111 77	6,040 04	6,643 51	21,034 83	22,577 77
Schools.....	32,169 16	81,842 47	258,985 15	227,511 77	362,353 79	493,064 59
Sewers... .	4,610 68	3,683 07	135,432 28	40,945 40	149,459 89	205,509 77
Streets.....	14,554 73	35,638 38	155,476 90	148,088 65	252,154 62	333,850 13
Water W'ks	.....	20,327 79	234,431 03	485,691 04	758,054 81	616,069 77

SCHEDULE B

No. IX

LIST OF CITY PROPERTY

AS FURNISHED BY

EXECUTIVE BOARDS AND HEADS OF DEPARTMENTS

IN

1905

LAW DEPARTMENT.

Two roll top desks	$40 00	
Two chairs	5 00	
Two revolving book shelves	10 00	
One filing cabinet	10 00	
One Caligraph typewriter	15 00	
A few law books and stationery	25 00	
		$105 00

PUBLIC PROPERTY DEPARTMENT.

CITY BUILDINGS.

	Feet of Land.	Purchase of Land.	Erection of Building.	Valuation of Land.	Valuation of Building.	Valuation of Furniture.
City Hall.....	47,878	1888	1888	$72,000	$200,800	$29,800
Brattle Sq. Bldg.	16,153	1873	1874	16,000	62,000	2,500
Central Sq. Bldg.	13,028	1872	1873	10,500	50,000	2,436
Station 3.....	4,220	1862	1870	2,100	20,000	800
Station 4.....	6,316	1872	1873	3,700	5,300	300
				$104,300	$338,100	$35,836

Voting booth, corner Cambridge and Hampshire Sts.	$500 00	
Portable voting booth, junction Sherman and Garden Sts.	200 00	
Voting compartments and fixtures (380)	1,900 00	
		$2,600 00

OLD MATERIAL IN STORE HOUSE.

Plumbers' materials	$100 00	
Old doors	10 00	
Davidson steam pump (at R. M. T. S.)	100 00	
		$210 00

PERSONAL PROPERTY.

1 horse	$130 00	
2 robes	14 00	
1 wagon	100 00	
Top buggy	150 00	
Sleigh	35 00	
		$429 00

POLICE DEPARTMENT.

PERSONAL PROPERTY.

210	badges	$150 00	2	bureaus	$3 00
120	belts	137 50	75	chairs	95 00
120	short billies	60 00	1	carpet	8 00
6	bedsteads	36 00		Letter press and stand	10 00
5	book cases	40 00	200	copies police rules	40 00
	Bedding and blankets	50 00	15	desks	450 00
1	buggy	150 00	1	easy chair "Matron's"	10 00
5	clocks	30 00	4	horses	560 00

6 harnesses	$180 00	3 thermometers	$2 00
4 halters	1 00	6 tables	12 00
1 hat rack	3 00	40 tin dippers	4 00
10 ink stands	5 00	1 typewriter and desk	140 00
50 lanterns	37 50	2 umbrella stands	2 00
8 mirrors	16 00	1 police van, old	25 00
3 maps	15 00	8 waste baskets	3 50
10 rugs	30 00	4 water coolers	30 00
12 handcuffs, pairs	36 00	Operating table and chair	37 50
1 police van	300 00	3 medicine cabinets	75 00
3 patrol wagons	1,000 00	2 wardrobes	15 00
3 police signal systems	12,000 00	2 wagon jacks	2 00
115 revolvers	480 00	Roll top desk	20 00
Ropes and stakes	6 00	Soap	1 00
3 robes, carriage	15 00	Metal polish	1 60
1 rogues' gallery	150 00	Sheets	3 00
2 safes	200 00	Pillow cases	2 50
8 spittoons	2 00	Towels	1 50
1 sleigh	25 00	Buttons	18 75
1 stove	8 00	Collars	4 20
2 straps and weight	1 00	Cloth	50 70
1 telephone line	300 00	2 Bicycles at $35.00	70 00
			$17,161 20

FIRE DEPARTMENT.

REAL ESTATE.

Buildings.	Location.	Land Purchased.	Erection of Building.	Land, Sq. Feet.	Assessed Value.	
					Land.	Building.
Engine House No. 1 Ladder House No. 1	108 Mt. Auburn St. Eliot Square.....			In City	building	schedule.
Engine House No. 2 Ladder House No. 3	384-394 Mass. Av.	Owned by City.	1893	10,000	$8,000	$26,000
Engine House No. 3	35 Third St.....	1895	1895	10,100	5,500	17,500
Engine House No. 4	2029 Mass. Av.....	1896	1896	9,532	6,000	23,000
Engine House No. 5	Inman Square	1874	1874	6,000	5,000	10,000
Engine House No. 6	176 River St.....	1890	1890-1891	4,994	2,500	12,000
Engine House No. 7	350 Main St.....	Owned by City.	1894-1895	9,400	7,300	12,000
Chemical Engine House No. 1.....	5 Western Ave....			In City	building	schedule.
Chemical Engine House No. 2.....	167 Lexington Av.	1893	1894	15,262	4,000	16,000
Ladder House No. 2	276 Portland St....	Owned by City.	1887	11,931	3,000	12,000
Engine House No. 8	Junction of Sherman and Garden St.	1903	.....	10,380	2,500	30,000
					$43,800	$158,500

PERSONAL PROPERTY.

ESTIMATED VALUE OF

Apparatus, hose, etc.	$66,100 00	
Bedding and furniture	4,230 00	
Hardware and tools	775 00	
Horses and harnesses	11,400 00	
Miscellaneous	1,100 00	
		$83,605 00

FIRE ALARM AND POLICE TELEGRAPH.

ELECTRICAL DEPARTMENT, WIRE ACCOUNT.

Equipment.

Fire Alarm apparatus and machinery	$11,300 00	
Fire Alarm and Police Telegraph Circuits	5,200 00	
102 Fire Alarm boxes	6,980 00	
Fire Alarm reserve apparatus	450 00	
Police Signal apparatus and machinery	3,000 00	
80 Police boxes	10,000 00	
Police Signal reserve apparatus	150 00	
Testing instruments	450 00	
Tools	250 00	
Stock on hand	600 00	
Old and disused apparatus	125 00	
Horses, wagons and harnesses	450 00	
Building in Cushing School yard	400 00	
		$39,355 00

HEALTH DEPARTMENT.

REAL ESTATE.

Number.	Street.	Houses.	Sheds.	Value of Buildings.	Value of Land.	Total Value.	Area sq. feet.	Remarks.
59	Reservoir	1	....	$3,600	$8,300	$11,900	16,624	Taken by Board of Health, Nov. 2, 1899
47	New.....	1	1	600	600	1,200	10,800	" " " " " Nov. 21, 1901
51	New.....	2	3	800	900	1,700	13,980	" " " " " Oct. 25, 1901 Mch. 24, 1902
67	New.. ...	1	2	1,000	300	1,300	6,140	" " " " " Feb. 8, and Mch. 24, 1902
				$6,000	$10,100	$16,100		

PERSONAL PROPERTY.

Laboratory furnishings		$268 00
Office furniture:—		
3 desks	$115 00	
1 revolving book case	10 00	
4 cabinets	19 00	
12 letter files	6 00	
		150 00
Dictionary		5 00
Stationery and sundries		20 00
Typewriter		100 00
3 atlases		50 00
Horse		165 00
1 ambulance		585 00
Amount carried forward		$1,343 00

Amount brought forward . .	$1,343 00	
1 Beverly wagon	175 00	
1 van	100 00	
3 sets of harness	125 00	
Blankets and horse covers . . .	20 00	
16 disinfecting lamps . . .	100 00	
		$1,863 00
At Diphtheria Hospital:—		
Medical and surgical supplies . .	$203 57	
Furnishings and general supplies .	1,153 18	
		1,356 75
At Small-pox Hospital:—		
Furnishings, clothing and general supplies		1,417 99
Total		$4,637 74

INSPECTOR OF MILK AND VINEGAR DEPARTMENT.

PERSONAL PROPERTY.

15 platinum dishes		$225 00	
1 cream seal		7 50	
1 drying oven		6 00	
1 Zeiss Refractometer		75 00	
Chemicals and glassware		25 00	
Water bath		22 00	
Electric Centrifuge		60 00	
Polariscope		55 00	
Analytical balance and weights		60 00	
Muffle furnace		5 00	
Busner stand		15 00	
Office furniture		50 00	
Discarded apparatus		20 00	
1 high speed Centrifuge		43 50	
1 autoclave and fittings		115 00	
1 milk collecting outfit		15 00	
Apparatus for plating bacteria:—			
6 tube holders	$6 00		
1 bath for melting agar . . .	2 00		
1 bath, water jacketed for melting agar	5 00		
2 racks for test tubes . . .	3 00		
2 Petri dish holders	2 00		
		18 00	
Petri dishes and glassware:—			
12 doz. pipettes	$10 00		
6 doz. Petri dishes	6 50		
6 doz. Petri covers	3 50		
Counting glass	1 00		
		21 00	
Immersion Refractometer		100 00	
			$938 00

CAMBRIDGE CEMETERY.

37.64 acres of land	$60,000 00	
One house	2,500 00	
Personal property	2,657 72	
Total		$65,157 72

SEALER OF WEIGHTS AND MEASURES DEPARTMENT.

INVENTORY OF PROPERTY.

STANDARDS FURNISHED BY COMMONWEALTH.

1 balance, 5 grains to 100 lbs.
1 set (5) avoirdupois weights, 50, 25, 20, 10, 5 lbs.
1 set (11) avoirdupois weights, 4 lbs. to 1-16 oz.
1 kilogramme in case.
1 steel meter in case.
1 brass yard measure.
1 set (5) iron dry measures. ½ bushel to 1 quart.
1 set (6) iron liquid measures, 1 gallon to 1 gill.

Office furniture	$200 00	
1 bay horse	100 00	
1 express wagon	100 00	
1 light wagon	75 00	
1 pung	23 00	
2 harnesses	70 00	
1 plush robe	1 00	
1 stable blanket	2 00	
1 rain blanket	2 00	
1 woolen blanket	5 00	
1 halter	75	
1 hitch weight	50	
1 wagon scale at Lechmere Square	400 00	
1 wagon scale at Union Square	350 00	
1 platform scale, 1-2 lb. to 2,500 lbs.	75 00	
1 folding platform scale, 1-4 lb. to 600 lbs.	30 00	
1 spring scale, 1 lb. to 125 lbs.	1 00	
1 balance, 1–10 milligramme to 500 grammes	35 00	
1 balance, 1–50 grain to 8 oz.	15 00	
1 sealers' balance, 1 grain to 8 lbs.	50 00	
2 sealers' trip scales (not used)	5 00	
2 sets avoirdupois weights (19), 4 lbs. to 1–8 oz.	10 00	
1 set troy weights (9), 16 oz. to 1–8 oz.	3 00	
1 set metric weights (13), 1 kilo to 1 gramme	5 00	
5 boxes miscellaneous weights (not standardized)	10 00	
1 set iron weights (3), 25, 10, 5 lbs.	5 00	
40 50-lb. weights	100 00	
3 glass graduates	1 00	
1 set copper dry measures (5), 1–2 bushel to 1 quart	45 00	
1 set brass dry measures (3), 1 quart to 1–2 pint	5 00	
2 sets copper liquid measures (14), 1 gallon to 1 gill	30 00	
1 steel surveyor's tape	10 00	
1 iron truck	5 00	
Miscellaneous tools	50 00	
1 branding furnace	5 00	
1 set brands	3 00	
2 sets weights of precision	27 00	
1–5 gallon measure	15 00	
Inside caliper	3 00	
		$1,872 25

CITY HOME ESTATE.

Thirty-two (32) acres land bought Aug. 7, 1849.

Present City Home completed and placed under the care of the Overseers of the Poor, April 3, 1851.

Land cost	$12,000 00	
City Home cost	32,970 69	
Fences, furniture, etc., cost	3,000 00	
Total		$47,970 69
Hospital cottage on City Home grounds built in 1886, moved and rebuilt in 1901, cost		2,800 00
Two-story brick building erected 1888 cost		5,600 00

Land situated in Cambridge	14 242–1,000 acres
" " " Somerville	7 954–1,000 "
" " " Arlington	100–1,000 "
Lands (salable) on plan of April 10, 1884:—	
30 lots of 5,000 feet each (in Somerville)	3 443–1,000 "
Total acres of land	25 739–1,000 "

About seven acres of City Home land lying south of Broadway in West Somerville have been sold for house lots. The remaining lots (30) contain 150,000 square feet, and have been held at a valuation of four cents per square foot, but at the present time are assessed for about ten cents.

The valuation of the City Home real estate by the assessors is:—

Land In Cambridge	$21,000 00	
Buildings in Cambridge	25,000 00	
Land in Somerville	32,200 00	
Buildings in Somerville	3,200 00	
Land in Arlington	300 00	
Total		$81,700 00

INVENTORY

of personal property at City Home, December 1, 1905:—

Book-keeping account books, stationery, etc.	$100 00	
Drugs, medicines and hospital supplies	300 00	
Dry goods, clothing, bedding, etc.	4,000 00	
Farm and stable: 2 horses, 23 pigs, 150 fowls, tools, 5 harnesses, 5 wagons, fertilizers, produce, 3 carriages, 2 sleighs, etc.	4,250 00	
Fuel	1,500 00	
House supplies, furniture, carpets, etc.	2,750 00	
Ledge: steam boiler, steam drill and tools	1,000 00	
Offal Dept.: 20 wagons, 20 pungs, 24 horses, 20 harnesses, etc	6,800 00	
Outside aid: 2 delivery wagons, groceries, etc.	340 00	
Provisions: groceries and spices	200 00	
		$21,240 00

INVENTORY

of personal property at Overseer's office, Central Square Building, December 1, 1905 :—

Office furniture, filing cases, book-cases, typewriter, books, stationery, etc.	$620 00	
City Physician's office : instruments, microscope, operating table, furniture, medicine, etc.	425 00	
Coal shed on Norfolk Street	400 00	
Sixty tons stove coal	480 00	
		$1,925 00

ENGINEERING DEPARTMENT.

PERSONAL PROPERTY.

6 books, at $3 each	$18 00	
4 volumes engineering papers, at $5	20 00	
5 logarithm books, at $1 each	5 00	
1 pantograph	10 00	
2 planimeters, at $20	40 00	
1 neostyle	5 00	
2 numbering machines, at $5 each	10 00	
1 typewriter	75 00	
Drawing instruments, pens, compasses, etc.	100 00	
Drawing materials and paper	50 00	
Wye level	50 00	
Dumpy level ($40), Hand level ($5)	45 00	
2 transits, at $100 each	200 00	
Level, line and sounding rods	45 00	
12 tapes	50 00	
Testing pans, moulds, etc.	10 00	
Electric motor	10 00	
Furniture in office	300 00	
Photographic outfit	50 00	
Rain gauges, standard and self recording	75 00	
Rubber boots	7 00	
9,536 plans, estimated value, $10 each	95,360 00	
		$96,535 00

SEWER DEPARTMENT.

REAL ESTATE.

Location.	Buildings.	Erection of Buildings.	Purchase of Land.	Feet of Land.	Assessors' Valuation of Land.	Assessors' Valuation of Buildings.	Total.
Pilgrim Street...	Stable	1887					
		1881					
" "	Sheds.....	1884					
		1892					
" "	House	1890	1868	23,707	$5,900 00	$4,100 00	$10,000 00

SEWERS.

130.726 miles of sewers, which have cost to construct	$1,922,358 54

PERSONAL PROPERTY.

1 buggy	$100 00	
4 carts, steel, sanitary	800 00	
1 cart, sanitary	50 00	
2 carts, tip	100 00	
10 clocks, register	100 00	
1 dray	50 00	
1 derrick, 4-leg	10 00	
1 engine, hoisting	100 00	
10 harnesses, sets of, and horse clothing	176 00	
5 horses	625 00	
2 patterns	10 00	
Pile driver and hammers	100 00	
4 pumps—1 steam and 3 hand	125 00	
1 roller, horse, street	100 00	
Rubber goods, miscellaneous	250 00	
1 sewer cleaning machine, "Healy"	500 00	
3 sleighs	140 00	
Stock on hand—brick, castings, lumber and pipe	400 00	
Tools and implements, miscellaneous	2,400 00	
Tool-houses, etc.	150 00	
1 Trench machine, "Carson"	1,000 00	
1 wagon, canopy top	100 00	
1 wagon	125 00	
		$7,511 00

STREET DEPARTMENT.

INVENTORY OF REAL AND PERSONAL PROPERTY.

REAL ESTATE.

Location.	Buildings.	Erection of Buildings.	Purchase of Land.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.
Raymond St.....	City Yard and Stable, stable, sheds, scales, etc.	1897	1896	272,670	$27,000	$27,000
Hampshire St...	City Stable, sheds and sca'es, including old police station.....	1885	.....	72,661	30,000	16,000
E. S. Norfolk St.	Yard and pound.....	.....	.....	39,600	12,000	.....
River St.	Yard and wharf.....	....	.....	.....	.....	17,000*
Acton, Mass.....	Land, gravel bank.....	.....	1896	41,546	7,000	.....
					$76,000	$60,000

* Includes valuation of land.

Total valuation of real estate	$136,000 00

PERSONAL PROPERTY.

65 horses	$6,000 00	
51 watering carts	12,500 00	
48 single and double carts	4,200 00	
Amounts carried forward	$22,700 00	$136,000 00

Amounts brought forward	$22,700 00	$136,000 00
86 sets harnesses	2,000 00	
Miscellaneous buggies, sleighs, pungs, plows, wagons, etc.	2,500 00	
4 bicycles	120 00	
4 steam-rollers	7,000 00	
1 two-horse section-roller	125 00	
Miscellaneous tools, road machines, pick-up sweepers, scrapers, brooms, waste barrels, push carts, etc.	8,200 00	
Stone crushing plant, Raymond Street	5,500 00	
Stone crushing plant, Hampshire Street	6,000 00	
8 Shadbolt ash carts	2,500 00	
2 Watson carts	350 00	
Miscellaneous lumber, iron, oils, etc	1,500 00	
88 feet straight edgestone	51 04	
19 feet circle edgestone	14 44	
150,000 granite paving blocks (seconds)	3,750 00	
500 square yards gutter stone	250 00	
2,500 sidewalk bricks	32 50	
800 tons crushed stone	788 00	
500 tons field stone	375 00	
12 tons coal	57 84	
41,327 vitrified bricks	1,219 15	
10 barrels Rosendale cement	10 00	
73 bags Portland cement	24 27	
1½ barrels road pitch	8 30	
		65,075 54
		$201,075 54

ELECTRICAL DEPARTMENT.

STREET LIGHTING.

Equipment.

314 lamp posts	$3,140 00	
Office furniture	275 00	
Stock on hand (old and disused)	385 00	
Horse, carriage and harness	300 00	
		$4,100 00

BRIDGE DEPARTMENT.

PERSONAL PROPERTY.

Cambridge and Boston Bridges.

Harvard Bridge	$750 00	
Prison Point Bridge	940 00	
West Boston Bridge	98 00	
River Street Bridge	500 00	
North Harvard Bridge	40 00	
Western Avenue Bridge	60 00	
		$2,388 00

WATER WORKS.

Street.	Buildings.	Date of Purchase.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.	Valuation of Personal
Adams place		1890	160,597	$1,400		
"		1890	419,222	10,000		
S. S. Auburn	1 house & sheds.				$4,000	
" "	Stable (brick)				7,000	
" "	Shop (brick)	1868	(Lot 12) 33,847	6,600	5,500	$14,270
" Concord ave	1 house (brick)					
" "	Shop and stable.		27.33 a.	16,700	4,000	325
" "		1890	⅝ a. (gravel pit)	300		
" "		1856	397,417	3,000		
" "		1886	99,000	1,000		
" " nr. Adams street		1891	10,805	500		
S. S. Concord ave		1886	11,220	100		
" " cor. Huron ave		1882	32,425	700		
S. S. Concord ave		1890	219,400	2,200		
" "		1890	62,000 (G. H. lot)	1,200		
Concord ave		1890	43,560	400		
Near Concord ave. and railroad		1892	4½ a.	5,000		
S. S. Concord ave		1890	24,100	300		
" "		1889	294,000	3,000		
" " between Fresh Pond and Watertown Branch of F. R. R.		1886	(Tudor Park) 57,312	1,500		
E. S. Cushing		1886	41,053	800		
" " cor. Woodlawn ave., north end		1888	95,482	2,000		
Cushing, corner Woodlawn ave.		1888	639,550	4,000		
E. S. Cushing, cor. Woodlawn ave., south end.		1888	(Tri'ngular lot on St.)	No value		
Fresh Pond lane			211 835	20,000		
" "		1890	11¼ a.	11,000		
R. Fresh Pond lane.		1886	364,608	3,500		
" "		1886	239,541	5,000		
Near Fresh Pond lane and Adams place		1886	110,891	1,000		
Fresh Pond lane cor. Huron ave.		1894	46,479	6,900		
Rear of Grove		1886	272,800	2,000		
" "		1888	150,000	1,500		
" "		1890	519,000 for ext'n St	6,000		
Holworthy		1886	18,480	No value		(in G. H.)
S. S. Huron avenue (part lot)		1886	22,348	700		5
S. S. Huron avenue (part lot)		1888	91,112	500		
Huron ave		1890	190,500	4,300		
" "		1890	1¾ a.	1,000		
Kingsley Park		1867 1886	309,336	8,000		
Lake View ave., cor. Vassal lane			(Lot 34) 15,371	2,000		
E. S. Lake View avenue			(Lot 32) 12,600	1,200		
E. S. Lake View avenue	House		(Lot 32) 9,000	1,000	7,000	
W. S. Lake View avenue			(Lot 37) 9,180	1,000		

WATER WORKS — Continued.

Street.	Buildings.	Date of Purchase.	Feet or Acres of Land.	Valuation of Land.	Valuation of Buildings.	Valuation of Personal
E. S. Lake View avenue			(Lot 31) 12,000	$1,200		
E. S. Lexington ave., cor. Worthington	House and stable..		(Lot 63) 14,437	2,900	$7,300	
Massachusetts ave..	In City Hall					offi'e furn $1,000
Vassal lane			(Lot 33) 10,795	1,000		
E. S. Woodlawn ave.		1886	91,040	2,000		
Woodlawn ave		1886	24,096	1,900		
E. S. Woodlawn ave.		1886	107,619	8,000		
E. S. Woodlawn ave.		1887	25,216	1,200		
E. S. Woodlawn ave.		1886	15,735	800		
Woodlawn ave..		1886	26,989	1,600		
E. S. Woodlawn ave.						
	Woodlawn ave. 9,910 29,471 22,100 4,000 7,000 7,333 14,328 12,280 106,422 Cushing 15,611 11,303					
	26,914		133,336	13,700		
Worthington	Pumping Station and machinery.	1856			50,000	pumping pl't, tools
	Dwelling-house..	1873	90,414	18,000	2,000	$200,000
E. S. Worthington, cor. Lake View avenue		1856 1883	(Lot 36) 5,294	800		
Nursery stock at Fresh Pond						5,000
Total				$190,400	$86,800	$220,600

REAL ESTATE AND PERSONAL PROPERTY AT HOBBS BROOK.

Value of land	$240,563 30	
Gate houses	6,710 40	
Keeper's house and stable	5,000 00	
Dams	132,297 73	
Personal property	63 00	
		$384,634 43

REAL ESTATE AND PERSONAL PROPERTY AT PAYSON PARK.

Value of land	$48,168 55	
Tool house	300 00	
Reservoir	287,000 00	
Personal property	30 00	
		$335,498 55

WATER WORKS — Concluded.

REAL ESTATE AND PERSONAL PROPERTY AT STONY BROOK.

Value of land	$138,080 73	
Keeper's house and stable	3,000 00	
Dam	289,000 00	
Personal property	396 00	
		$430,476 73

VALUATION OF

Main pipe	$652,401 45	
Supplies	223,317 58	
Boxes	13,367 29	
Fountains	5,600 00	
Gates	38,640 16	
Hydrants	46,437 00	
Ice water fountains	1,900 00	
Meters	38,100 45	
Standpipes	1,490 80	
Payson Park line	198,000 00	
Stony Brook line	237,600 00	
		$1,456,854 73

PUBLIC PROPERTY DEPARTMENT.

SCHOOLHOUSES.

	Feet of Land.	Purchase of Land.	Erection of Building.	Valuation of Land.	Valuation of Building.	Valuation of Furniture.
Agassiz	19,689	1874	1875	$8,000	$20,000	$1,215
Boardman	10,018	1866	1868	4,000	13,000	1,290
Bridge	4,646	1836	1836	1,400	500	.....
Corlett	10,000	1880	1880 Purchased.	1,200	3,000	195
Cushing	14,787	1880	1880 Purchased.	1,500	3,000	136
Dana	14,317	1847	1848	4,300	.....	.....
Ellis	25,700	1897	1898	6,000	48,000	2,993
Felton	15,090	1847	1848	4,500	6,000	200
Fletcher	18,360	1902	1903	12,000	44,000	.....
Gannett	15,434	1876	1886	3,000	12,000	430
Gannett (old)	.....	1864	1865	2,600	2,000	395
Wellington	27,673	1875	1884	5,700	50,000	2,240
Gore	9,900	1871	1871	4,000	50,000	825
Harvard	20,494	1870	1871–1899	12,000	65,000	3,769
High	74,366	....	1891	40,900	220,000	9,220
Holmes	11,182	1870	1870	5,000	5,500	275
Houghton	20,306	1904	1904–1905	10,850	85,150	4,000
Kelley	25,230	1900	1902	9,600	60,900	4,380
Lassell	10,000	1880	1880	3,000	8,000	272
Latin	79,579	1894	1897	43,800	225,000	27,150
Lowell	12,033	1883	1883	3,600	5,500	402
Merrill	37,828	1864	1864	19,000	45,000	1,425
Morse	25,650	1889	1890	7,000	73,000	2,040
Otis	8,270	1857	1859	4,000	20,000	930
Parker	12,319	....	1893	7,000	15,000	710
Peabody	21,813	1887	1888–1898	9,800	68,000	3,340
Putnam	14,400	1896	1889	9,800	64,500	2,550
Reed	12,000	1868	1868	1,200	4,000	310
Rindge M. T.	81,128	....	1887	44,000	72,000	12,000
Riverside	11,198	1868	1868	3,000	5,000	330
Roberts	16,400	1898	1898	12,000	67,500	4,453
Russell	33,073	1895	1896	6,000	40,000	2,440
Sargent	9,995	1838	1838	5,000	3,000	255
Shepard	14,755	1855	1856–1873	11,000	26,000	1,047
Sleeper	21,284	1894	1894	5,000	24,000	1,190
Stearns	10,050	1812	1841–1843	5,000	3,000	322
Tarbell	19,500	1878	1882	4,900	7,000	355
Taylor	23,592	1894	1895	6,000	36,000	1,720
Thorndike	10,027	1860	1860–1875	4,000	30,000	1,676
Washington	16,000	1900	1901	12,800	80,000	3,550
Webster	25,839	1866	1873–1885	9,000	50,000	3,350
Willard	20,079	1869	1870	7,000	25,000	1,350
Wyman	14,347	1871	1871–1886	4,500	5,000	555
				$383,950	$1,689,550	$109,985

SCHOOL DEPARTMENT.

PERSONAL PROPERTY.

Text books	$28,992 78	
Desk, reference and library books	1,606 75	
Apparatus and furnishings	22,284 54	
Stock on hand July 1	7,209 29	
Total		$60,093 36

PUBLIC LIBRARY.

REAL AND PERSONAL ESTATE.

141,666 feet of land, as per assessors' books	$85,000 00	
Library building, as per assessors' books	145,000 00	
		$230,000 00
Estimated valuation of books in the library	$72,000 00	
Estimated valuation of interior furnishings	9,000 00	
Estimated valuation of books in the East Cambridge Branch Library	2,500 00	
Estimated valuation of furnishings in the East Cambridge Branch Library	375 00	
		83,875 00
		$313,875 00

The lot (about 590 x 240 feet) occupied by the library building is bounded by Broadway, Irving, Cambridge and Trowbridge Streets. The land and building were presented to the City of Cambridge by Mr. Frederick H. Rindge, in June, 1889, on the completion of the building, which was begun in the autumn of 1887. In 1894 a wing was added to the building at a cost to the City of $20,000, and in 1902 an addition to the stack was made at an expense of about $30,000.

The Trustees of the Library also hold the following funds, invested in the bonds of the City of Cambridge :—

Fay fund, school-house loan bond, No. 254, due 1st August, 1918, at 3½ per cent		$1,000 00
Cummings' fund, water loan bond, No. 38, due 1st July, 1909, 4 per cent.		2,000 00
Citizens' subscription fund, invested as follows :—		
Sewer loan bond, No. 7, due 1st May, 1910, 4 per cent.	$5,000 00	
Sewer loan bond, No. 47, due 1st October, 1925, 4 per cent.	500 00	
		5,500 00
William E. Saunders fund, invested as follows :—		
Building loan bond, No. 544, due 1st April, 1923, 3½ per cent.	$3,000 00	
Street loan bond, No. 545, due 1st April, 1923, 3½ per cent.	4,000 00	
Deposited in Cambridgeport Savings Bank	382 11	
		7,382 11
James A. Woolson fund, invested as follows :—		
City of Cambridge park loan bond, No. 701, due 1st April, 1945, 3½ per cent.		5,000 00
		$20,882 11

PARK DEPARTMENT.

LAND.

	SQUARE FEET.	VALUE.
River Parkway :—		
Section A	395,174	$395,174 00
" B	859,000	1,718,000 00
" C	583,082	145,770 50
" D	1,668,709	188,045 21
" E	77,101	61,045 72
" F	605,084	117,537 65
" G	699,948	419,968 80
" H	62,858	13,135 30
Cambridge Field	528,154	206,200 13
Rindge Field and Nursery	501,729	150,518 70
East Cambridge Embankment	363,825	132,730 28
Commons and Squares :—		
Garden St , Massachusetts Ave. and Waterhouse St.	370,785	370,000 00
Massachusetts Ave., Kirkland and Cambridge Sts.	33,357	66,000 00
Massachusetts Avenue and Peabody Street	23,074	46,000 00
Massachusetts Avenue and Holmes Place	20,956	42,000 00
Massachusetts Avenue and Waterhouse Street	13,181	13,000 00
Washington Elm	886	886 00
Broadway Common	107,181	54,000 00
Fort Washington	42,123	8,000 00
Dana Square	33,531	12,000 00
Hastings Square	30,000	9,000 00
Winthrop Square (approx.)	11,611	23,000 00
Arsenal Square	3,189	3,100 00
Pleasant and River Streets	1,569	1,200 00
Pleasant Street and Western Avenue	1,372	1,000 00
Massachusetts Avenue and Arrow Street	872	1,700 00
Mill Pond Property	119,127	26,900 00
Total		$4,225,912 29
Buildings		63,000 00
Equipment		2,850 00

SCHEDULE B

No. X

EXEMPTED PROPERTY

The following is a schedule of property used for religious, charitable and educational purposes, and exempt from taxation by law, including property owned by the county of Middlesex not including that owned by the City of Cambridge, as shown on the Assessors' Books, November 30, 1905 :—

Ward One.

Trinity Methodist Episcopal Church :—			
Church, Cambridge, corner Third Street	$25,000 00		
6,500 feet of land	16,300 00		
		$41,300 00	
Massachusetts Baptist Convention, Trustee :—			
Church, Cambridge and Fourth Streets	25,000 00		
6,000 feet of land	11,000 00		
		36,000 00	
Church of the Ascension :—			
Church, Third and Thorndike Streets	5,000 00		
4,800 feet of land	4,000 00		
		9,000 00	
County of Middlesex :—			
Court House, Third, Otis and Thorndike Streets	208,500 00		
Court House, Second, Otis and Thorndike Streets	180,000 00		
59,572 feet of land	60,000 00		
		448,500 00	
Law Library		50,000 00	
Registry of Deeds :—			
Cambridge, Otis, Second and Third Streets	376,000 00		
59,380 feet of land	90,000 00		
		466,000 00	
House of Correction, jail and shops, Thorndike, Third, Spring and Second Streets	425,000 00		
59,880 feet of land	30,000 00		
		455,000 00	
Sacred Heart School Association :—			
St. John's Church, Fourth Street	5,000 00		
7,005 feet of land	4,200 00		
		9,200 00	
St. John's Literary Institute :—			
Halls and stores, Cambridge Street, ⅔ value	20,000 00		
½ of 6,300 feet of land	4,700 00		
Cash assets	4,113 64		
		28,813 64	
			$1,543,813 64

Ward Two.

Second Universalist Society :—			
Church, Otis Street	$16,000 00		
5,950 feet of land	3,500 00		
		$19,500 00	
Church of the Sacred Heart :—			
Church, Sixth, Otis and Seventh Streets	70,000 00		
15,400 feet of land	6,200 00		
		76,200 00	
Sacred Heart School Association :—			
11,000 feet of land on Seventh Street	3,300 00		
Schoolhouse	150,000 00		
		153,300 00	
			249,000 00
Amount carried forward			$1,792,813 64

Amount brought forward . .			$1,792,813 64
Ward Three.			
Roman Catholic Archbishop of Boston: —			
Building, west side Portland Street .	$7,000 00		
3,687 feet of land	1,500 00		
			$8,500 00
Ward Four.			
Broadway Baptist Church: —			
Church, west side Boardman Street .	30,000 00		
11,620 feet of land	8,000 00		
		$38,000 00	
Cambridgeport Unitarian Society: —			
Church, north side Austin Street .	18,000 00		
13,116 feet of land	8,000 00		
		26,000 00	
Harvard Street Methodist Episcopal Society: —			
Church, north side Harvard Street .	22,000 00		
10,030 feet of land	8,000 00		
		30,000 00	
St. Paul's African M. E. Church: —			
Church, north side of Hastings Street	7,500 00		
3,186 feet of land	1,400 00		
		8,900 00	
Hope Congregational Church: —			
Church, north side Harvard Street .	8,000 00		
6,000 feet of land	3,000 00		
		11,000 00	
Swedish Evangelical Missionary Church of Cambridge: —			
Church, 146 Hampshire Street . .	7,000 00		
3,879 feet of land	1,600 00		
		8,600 00	
St. Stephen's Baptist Church Buildings, 187–189 Broadway (part value) .	500 00		
2,840 feet of land (part value) . .	1,100 00		
		1,600 00	
St. Mary's Parochial School: —			
Church, west side Norfolk, corner Harvard Street . . .	45,000 00		
Girls' School, south side Harvard Street	60,000 00		
Boys' School, east side Essex Street	18,000 00		
Sisters' Home, 50 and 52 Essex Street	7,000 00		
49,928 feet of land	20,000 00		
Theatre, east side Norfolk Street .	15,000 00		
13,032 feet of land	6,500 00		
Gymnasium, east side Prospect Street	35,000 00		
11,370 feet of land	5,700 00		
House, 121 Norfolk Street . .	7,500 00		
7,500 feet of land	2,300 00		
		222,000 00	
Congregation Beth Israel of Cambridge: —			
East side Columbia, near Market, Synagogue	15,000 00		
8,784 feet of land	2,600 00		
		17,600 00	
			363,700 00
Amount carried forward . . .			$2,165,013 64

Amount brought forward . .			$2,165,013 64
	Ward Five.		
Baptist Church, Trustees of funds of :—			
Chapel, Hampshire Street . . .	$3,000 00		
2,500 feet of land	800 00		
		$3,800 00	
First Evangelical Congregational Society :—			
Church, west side Prospect Street .	40,000 00		
19,513 feet of land	12,000 00		
		52,000 00	
First Free Baptist Church :—			
Church, north side Harvard Street .	9,000 00		
6,250 feet of land	4,700 00		
		13,700 00	
Donald M. Campbell, Trustee for First Free Baptist Church :—			
Church, north side Hampshire Street	3,000 00		
3,851 feet of land	1,600 00		
		4,600 00	
First Universalist Society of Cambridge :—			
Church, east side Inman Street . .	20,000 00		
15,312 feet of land	11,300 00		
		31,300 00	
First Reformed Presbyterian Church, west side Antrim Street . . .	7,500 00		
5,000 feet of land	2,100 00		
		9,600 00	
First United Presbyterian Church :—			
Church, south side Cambridge Street	6,500 00		
9,173 feet of land	4,600 00		
		11,100 00	
Cambridge Young Women's Christian Association :—			
Personal property	10,369 84		
House, 5 Temple Street . . .	3,400 00		
6,069 feet of land	3,600 00		
2 houses, 11 Temple & 136 Austin Sts.	600 00		
5,098 feet of land	400 00		
West side Temple St., 8,311 ft. of land	4,700 00		
		23,069 84	
			149,169 84
	Ward Six.		
Immanuel Baptist Church :—			
Church, east side Magazine Street .	$25,000 00		
11,250 feet of land	3,000 00		
		$28,000 00	
First Swedish Baptist Church of Cambridge :—			
Church (unfinished), 77 Columbia St.	7,000 00		
2,765 feet of land	1,200 00		
		8,200 00	
Grace Methodist Episcopal Church :—			
Church, east side Magazine Street .	15,000 00		
7,750 feet of land	5,000 00		
		20,000 00	
Massachusetts Baptist Convention :—			
Union Baptist Church :—			
Church, 874 Main Street . . .	14,500 00		
3,900 feet of land	3,900 00		
		18,400 00	
Amounts carried forward . .		$74,600 00	$2,314,183 48

Amounts brought forward . .		$74,600 00	$2.314,183 48
Baptist Home, 80 Chestnut Street, and 308 Brookline Street, one house and stable	$11,500 00		
21,300 feet of land	10,000 00		
Personal property	19,260 26		
		40,760 26	
The Lamson House, 322 Brookline Street, one house	5,000 00		
5,000 feet of land	2,000 00		
Personal property	9,374 29		
		16,374 29	
Mount Olive Baptist Church and Willard Welsh, for tax :—			
250 feet of land		100 00	
Mount Olive Baptist Church, south side Front Street, Church . . .	18,000 00		
5,000 feet of land	2,500 00		
		20,500 00	
East End Union Mission :—			
Church, west side Burleigh Street on Rogers' land		6,000 00	
Rush African M. E. Zion Church :—			
Church, south side School Street .	6,000 00		
2,760 feet of land	1,100 00		
		7,100 00	
St. Philip's Church, Episcopal :—			
Church, north side Allston Street .	3,000 00		
4,646 feet of land	1,300 00		
		4,300 00	
Wood Memorial Church, Congregational :—			
Church, west side Columbia, corner Austin Street	30,000 00		
8,933 feet of land	4,700 00		
		34,700 00	
			204,434 55
Ward Seven.			
Cambridge Young Men's Christian Association :—			
Personal property	15,700 00		
New Building, Massachusetts Avenue	127,000 00		
24,145 feet of land	22,000 00		
		164,700 00	
First Baptist Society :—			
Church, Central Square . . .	80,000 00		
21,400 feet of land	20,000 00		
		100,000 00	
First Church of the Evangelical Association of North America :—			
Church, 44 William Street . .	5,000 00		
6,750 feet of land	2,900 00		
		7,900 00	
Pilgrim Congregational Church :—			
Church, west side Magazine Street .	30,000 00		
12,415 feet of land	9,300 00		
		39,300 00	
Amounts carried forward . . .		$311,900 00	$2,518,618 03

Amounts brought forward . .		$311,900 00	$2,518,618 03
Protestant Episcopal Church, Trustees of Donations to: —			
Church, south side Massachusetts Avenue (St. Peter's) . . .	$10,000 00		
9,229 feet of land . . .	9,200 00		
		19,200 00	
Prospect Union Association: —			
Personal property	12,971 06		
Building, 744 Massachusetts Avenue	5,800 00		
11,449 feet of land	20,300 00		
		39,071 06	
Stratton, Chas. F., Allen K. Sweet, and Edwin S. Chapin, Trustees: —			
Building, west side Ballard Place .	6,000 00		
4,344 feet of land	1,100 00		
Personal property	258 00		
		7,358 00	
			377,529 06
Ward Eight.			
Epworth Methodist Episcopal Church: —			
Church, Massachusetts Avenue .	76,000 00		
11,248 feet of land	11,200 00		
		87,200 00	
Old Cambridge Baptist Society: —			
Church, Massachusetts Avenue and Harvard Street	71,000 00		
34,573 feet of land	100,000 00		
		171,000 00	
St. Paul's Roman Catholic Church: —			
Church, Mount Auburn Street . .	30,000 00		
11,216 feet of land	60,000 00		
		90,000 00	
St. Paul's Catholic School Association: —			
Personal property	4,000 00		
School building	59,000 00		
House, Arrow and Mount Auburn Streets	8,000 00		
32,900 feet of land	73,200 00		
		144,200 00	
Holy Ghost Hospital for Incurables: —			
Personal property	5,012 40		
Building and house, Cambridge Street	56,000 00		
281,436 feet of land (part in Ward 5)	72,000 00		
		133,012 40	
The Corporation of the New Church Theological School: —			
New chapel	15,000 00		
Personal property	161,299 14		
Two houses and stable, 42–48 Quincy Street	16,000 00		
81,450 feet of land	81,000 00		
		273,299 14	
Amounts carried forward . . .		$898,711 54	$2,896,147 09

Amounts brought forward . .		$898,711 54	$2,896,147 09
President and Fellows of Harvard College :—			
Personal property	$14,405,392 15		
Dormitories, chapels, laboratories, museums, lecture rooms and houses, including property in Wards 9 and 10	6,828,000 00		
		21,233,392 15	
Jane Wilson (widow of disabled soldier),			
House, 9 Elmer Street . . .	900 00		
1,275 feet of land	300 00		
		1,200 00	
Harvard Lampoon Society :—			
Personal property		3,601 68	
			22,136,905 37
Ward Nine.			
The Buckingham School, Buckingham Street :—			
Schoolhouse	6,000 00		
7,600 feet of land	3,800 00		
Personal property	1,385 22		
		11,185 22	
Christ Church, Episcopal, Garden St. :—			
Church and Parish House . . .	22,000 00		
22,701 feet of land	28,000 00		
		50,000 00	
First Parish Church, Unitarian :—			
Church, Massachusetts Avenue . .	57,000 00		
14,831 feet of land	43,000 00		
		100,000 00	
Cambridge Social Union :—			
Personal property	2,000 00		
House, No. 42 Brattle Street . .	5,000 00		
7,030 feet of land	10,500 00		
⅓ value of hall	4,000 00		
⅓ value of 10,000 feet of land . .	5,000 00		
		26,500 00	
Shepard Congregational Society :—			
Church, Garden Street . . .	110,000 00		
34,353 feet of land	34,000 00		
		144,000 00	
St. Peter's Roman Catholic Church :—			
Church, Concord Avenue . . .	45,000 00		
33,700 feet of land	11,000 00		
		56,000 00	
St Peter's Parish Hall Corporation :—			
Stores and hall, 70 Concord Avenue .	39,500 00		
11,850 feet	3,500 00		
		43,000 00	
Cambridge Hospital :—			
Personal property	292,753 53		
Buildings, Mount Auburn Street .	94,000 00		
Land	143,000 00		
		529,753 53	
Cambridge Home for Aged People :—			
Personal property	103,850 37		
Building, Mount Auburn Street .	60,000 00		
42,975 feet of land	20,000 00		
		183,850 37	
Amounts carried forward . . .		$1,144,289 12	$25,033,052 46

Amounts brought forward . .		$1,144,289 12	$25,033,052 46
Longfellow Memorial Association :—			
Personal property	$16,947 94		
Park, south side Brattle Street, 93,618 feet	56,000 00		
		72,947 94	
Episcopal Theological School, Trustees of :—			
Personal property	330,934 78		
Chapel, seminary and dormitories, Brattle and Mason Streets, and Hastings Avenue	356,700 00		
		687,634 78	
Avon Home, Mount Auburn Street :—			
Building	22,000 00		
69,470 feet of land	28,000 00		
Personal property	144,315 39		
		194,315 39	
Radcliffe College :—			
Personal property	656,904 41		
Five houses, laboratory, schoolhouse and gymnasiums, Garden, Brattle, Mason and James Streets, 163,296 feet of land, including Ward 10 property	345,000 00		
		1,001,904 41	
Metropolitan Park, 29 acres and 397,445 feet		204,600 00	
			3,305,691 64
Ward Ten.			
North Avenue Congregational Society :—			
Church, Massachusetts Avenue . .	32,000 00		
13,430 feet of land	11,600 00		
		43,600 00	
			43,600 00
Ward Eleven.			
Catholic Cemetery, Rindge Avenue, 304,014 feet of land . . .		30,000 00	
Third Universalist Society :—			
Church, Massachusetts Avenue . .	30,000 00		
14,880 feet of land	14,800 00		
		44,800 00	
Trustees of Donations to the Protestant Episcopal Church :—			
Church and Chapel, Massachusetts Avenue and Beech Street . .	75,000 00		
21,207 feet of land (cemetery lot included)	21,200 00		
		96,200 00	
Abbott, Edward, Trustee for, west side Beech Street :—			
Lot, 7,965 feet of land . . .		3,900 00	
Amounts carried forward . . .		$174,900 00	$28,382,344 10

Amounts brought forward . .		$174,900 00	$28,382,344 10
North Avenue Baptist Society :—			
Church, Massachusetts Avenue .	55,000 00		
38,525 feet of land	21,300 00		
		76,300 00	
Roman Catholic Archbishop of Boston :—			
Schoolhouse, south side Rindge Ave.	40,000 00		
39,754 feet of land	8,000 00		
Church, west side Massachusetts Ave.	10,000 00		
17,753 feet of land	10,000 00		
		68,000 00	
Lot, east side Middlesex Street, 1,939 feet		400 00	
Lot, south side Wilson Avenue, 6,214 feet		1,200 00	
Lot, end Wilson Avenue, 2,037 feet .		400 00	
Marist Fathers of Boston, French Roman Catholic Church :—			
Personal property	1,500 00		
Church, north side Harvey Street .	18,000 00		
14,645 feet of land	3,000 00		
Schoolhouse, Harvey Street . .	15,000 00		
12,375 feet of land	1,200 00		
		38,700 00	
Weymouth, Harrison G. O , (disabled soldier): —			
Orchard Street, 4,800 feet of land .		2,200 00	
			362,100 00
Total			$28,744,444 10

REPORT OF THE COMMITTEE ON ACCOUNTS

CAMBRIDGE, December 27, 1905.

To the Honorable, the City Council : —

Under the provisions of Section 4 of Chapter 4 of the Revised Ordinances of 1892, the Committee on Accounts submits herewith its annual report for the year 1905.

The Committee has regularly met during the first week of each month, and has examined the books and accounts of the Auditor. They are kept with accuracy and neatness, and it gives your Committee much pleasure to make public commendation of the faithful manner in which he has performed his duties.

EDWARD B. JAMES,
FRANCIS J. FAHY,
JULIUS MEYERS,
JAMES P. CROWLEY,
ISAAC BRADFORD,

Committee on Accounts for the Year 1905.

REPORT OF THE CITY TREASURER

City of Cambridge, Mass.,
Office of City Treasurer, December 1, 1905.

To the Honorable, the City Council: —

In the following pages I submit a detailed report of the receipts and expenditures of the public funds by the Treasury Department, during the year ending November 30, 1905, including an account of all bonded and temporary loans negotiated in said year; also, a detailed account of official fees received, and reports on the "Cemetery Fund" and "Sarah E. Russell Fund."

Very respectfully,

WM. W. DALLINGER,
City Treasurer.

CITY OF CAMBRIDGE IN ACCOUNT CURRENT FROM DECEMBER 1, 1904, TO

Dr.

To authorized payments charged to City Accounts: —

Mayor's Department: —	
Salaries	$5,489 99
General Expenses	465 16
City Messenger's Department: —	
Salaries	1,780 00
General Expenses	212 89
Clerk of Committees Department: —	
Salaries	3,300 00
General Expenses	329 37
City Council Expenses	7,920 35
City Clerk's Department: —	
Salaries	6,526 69
General Expenses	1,899 31
Law Department: —	
Salaries	4,217 00
General Expenses	743 86
Auditing Department: —	
Salaries	3,812 49
General Expenses	376 99
Assessors' Department: —	
Salaries	13,244 88
General Expenses	2,404 71
Assessors' Plans	298 79
Treasury Department: —	
Salaries	10,762 52
General Expenses	6,146 43
Sinking Fund Officials	365 00
Election Expenses: —	
City Clerk	9,567 48
Registrars of Voters	3,658 13
Superintendent of Buildings	1,719 29
City Building Account: —	
Salaries	9,574 26
General Expenses	11,044 94
Postage and Stationery	1,631 36
Police Department: —	
Salaries	144,942 56
General Expenses	6,645 22
Fire Department: —	
Salaries	88,257 23
General Expenses	25,464 33
New Engine House, Ward 10	12,479 44
Electrical Department: Wire Department: —	
Salaries	8,103 00
General Expenses	5,430 12
Keyless Doors	800 00
Health Department: —	
Salaries	12,630 00
General Expenses	9,345 11
Smallpox Hospital	848 83
Diphtheria Hospital	8,024 82
Land for Hospital	225 00
Inspector of Milk and Vinegar: —	
Salaries	1,562 33
General Expenses	456 07
Inspector of Animals	782 34
Cemetery Department: —	
Salaries	15,692 91
General Expenses	2,638 32
Amount carried forward	$451,819 52

Nov. 30, 1905 (inclusive), with Wm. W. Dallinger, City Treasurer.

Cr.

By receipts as follows: —	
City Clerk's Department	$1,297 70
Law Department	500 00
Treasury Department	3,055 67
Election Expenses, City Clerk	200 00
City Building Account	1,358 46
Contingent Fund	138 09
Postage and Stationery	1,440 07
Police Department	5,522 34
Fire Department	134 35
Electrical Department — Wire Account	11 20
Health Department	2,182 24
Cemetery Department — Burials, Sales of Lots, etc.	17,661 92
Sealer of Weights and Measures	780 95
Militia and Armories: —	
Rifle Range	100 00
Rent of Armories	1,470 65
City Farm	4,964 10
City Home	967 69
City Home Hospital	105 50
Out Door Relief	1,399 37
State Aid — Soldiers' Relief	14,783 50
Engineering Department	5 30
Grade Crossings	3,115 00
Street Maintenance	1,180 80
Paving — Edgestones and Sidewalks	375 04
Street Sprinkling	338 01
House Offal	11,326 61
Sewer Department — Maintenance	129 57
Bridges: —	
Boston Bridges	433 33
Cambridge Bridge	25 00
Water Department: —	
Construction, General	3,851 74
Maintenance, Water Rates	354,097 90
City Real Estate — Rents	1,394 72
Schools: —	
General Expenses	181 05
Houghton Schoolhouse	90 00
Text Books and Supplies	594 96
Tuition	6 330 00
Hopkins Fund	136 00
Main Library	5,413 65
Park Department: —	
Construction and Lands	1,939 85
Maintenance	25 09
Brown Tail Moth Extermination	1,336 65
Cambridge Field and Shelter	32 06
Shade Trees	15 00
Baths — Park Department	1,671 93
Loan: —	
Cambridge Bridge	250,000 00
Park	55,000 00
Schoolhouse	40,950 00
Sewer	90,000 00
Street	85,500 00
Temporary	575,000 00
Water	296,000 00
Premium Account	9,928 71
Interest	16,548 41
Interest upon Water Loan	1,085 97
Taxes: —	
1897	49 75
1898	77 64
1899	116 55
Amount carried forward	$1,872,372 09

CITY OF CAMBRIDGE IN ACCOUNT CURRENT FROM DECEMBER 1, 1904, TO

Dr.

Amount brought forward		$451,819 52
Superintendent of Buildings: —		
Salaries	6,031 00	
General Expenses	881 40	
Plumbers Examiners' Department		72 92
Sealer of Weights and Measures: —		
Salaries	2,053 55	
General Expenses	451 20	
Militia and Armories: —		
Rifle Range	612 60	
Car Tickets to and from Rifle Range, etc	643 49	
Rent of Armories	70 65	
City Farm: —		
Labor	4,102 78	
Supplies	852 96	
City Home: —		
Salaries	7,736 76	
General Expenses	11,841 74	
Hospital	1,700 45	
Out-door Relief: —		
Salaries	2,748 75	
General Expenses	14,583 04	
City Physician		1,500 00
State Aid — Soldiers' Relief		27,018 46
Engineering Department: —		
Salaries	8,285 94	
General Expenses	823 37	
Street Department — Salaries of Superintendent and Clerks		4,463 30
Land Damages		8,244 71
Street Construction		55,363 92
Somerville Avenue, etc	1,123 95	
Laurel Street	618 54	
Madison Street, etc	133 87	
Mt. Auburn Bridge	2,824 21	
Board of Survey		114 18
Street Paving: —		
Street Maintenance	70,161 94	
Rebuilding Streets	49,969 41	
Subway at Raymond Street	882 00	
Sidewalks: —		
Paving — Edgestones and Sidewalks	29,991 75	
Sidewalk Repairs	1,238 87	
Street Lighting: —		
Salaries	1,000 00	
General Expenses	77,406 50	
Street Cleaning		29,684 80
Snow Removal		16 500 60
Street Sprinkling		25,243 09
House Offal: —		
Labor	26,936 62	
General Expenses	6,681 68	
Collection of Ashes		32,572 93
Sewer Department: —		
Construction: —		
General	20,391 23	
Improved Sewerage	54,736 40	
Separate System of Drainage	24,639 71	
Maintenance	16,974 41	
Metropolitan Sewer Tax	89 341 00	
Amount carried forward		$1,194,070 20

NOV. 30, 1905 (INCLUSIVE), WITH WM. W. DALLINGER, CITY TREASURER.

Cr.

Amount brought forward	$1,872,372 09
1900	217 69
1901	318 14
1902	1,204 37
1903	11,173 73
1904	391,837 17
1905	1,613,941 30
Old Taxes	19 50
Excise Tax	548 39
Tax:—	
Corporation	93,918 86
National Bank	18,530 04
Street Railway	68,914 72
Tax Lien Account	116 45
Licenses	2,996 50
Betterments — Clark Street	66 27
Assessments for Sidewalks	11,215 67
Assessments for Street Sprinkling	17,144 90
Assessments for Sewers	6,798 46
Trustee of Cemetery Fund	2,732 13
Commissioners of Sinking Funds	223,000 00
Total Receipts	$4,337,066 38
Cash Balance in Treasury, November 30, 1904	246,927 07
Amount carried forward	$4,583,993 45

City of Cambridge in Account Current from December 1, 1904, to

Dr.

Amount brought forward		$1,194,070 20
Bridges: —		
Boston Bridges: —		
Salaries and Labor	10,007 67	
General Expenses	5,775 18	
Cambridge Bridge	226,477 08	
Street Department	5,823 96	
Damages to Persons and Personal Property		1,739 25
Civil Service Department		256 25
Water Department: —		
Construction: —		
General		13,950 51
Hobbs Brook Account: —		
General	136 69	
Land Settlements	1,628 10	
Services of City Solicitor	500 00	
Meters	4,224 58	
Stony Brook Main	3,822 51	
Hobbs Brook Conduit	222,396 70	
Maintenance: —		
Salaries, etc.	10,261 50	
General Expenses	26,171 20	
Metropolitan Water	28,458 50	
Pumping: —		
Salaries and Labor	7,485 72	
General Expenses	7,503 31	
Fresh Pond Reservoir	10,970 30	
Grading	6,409 90	
Hobbs Brook Reservoir	1,711 40	
Payson Park Reservoir	1,363 16	
Stony Brook Reservoir	2,256 21	
Rent	1,200 00	
Ice for Fountains	847 28	
Refunds	1,879 07	
Abatements	2,885 33	
Schools: —		
Salaries, Janitors and others		37,365 80
General Expenses		51,613 89
Houghton Schoolhouse		87,300 06
Rindge Manual Training Schoolhouse: —		
Addition	1,524 00	
Equipment	5,570 11	
Alterations	9,184 23	
Kelley Schoolhouse	240 86	
Roberts Schoolhouse Addition	16,274 82	
Care of Truants	1,943 68	
Flags	71 95	
Incidentals	1,657 68	
Text Books and Supplies	21,289 86	
Transportation of Pupils	401 00	
Hopkins Fund	176 87	
Salaries, Teachers and Officers	336,226 37	
Vacation Schools	1,654 56	
Main Library: —		
Salaries	9,676 64	
General Expenses	10,477 06	
East Cambridge Branch Library: —		
Salaries	834 45	
General Expenses	1,056 69	
Park Department: —		
Metropolitan Park Tax	39,570 87	
Construction and Lands	36,186 03	
Playground, East Cambridge	12,086 64	
Grading Rindge Field	846 84	
Maintenance: —		
Brown Tail Moth Extermination	11,075 35	
Amount carried forward		$2,494,517 87

Nov. 30, 1905 (INCLUSIVE), WITH WM. W. DALLINGER, CITY TREASURER.

Cr.

Amount brought forward	$4,583,993 45
Amount carried forward	$4,583,993 45

City of Cambridge in Account Current from December 1, 1904, to

Dr.

Amount brought forward	$2,494,517 87
Cambridge Field and Shelter	5,864 45
Commons, Squares and Public Grounds	4,980 67
General Account	602 30
Shade Trees	4,721 25
Sections A, B, D, F and Rindge Field	3,362 18
Sections G and H	3,551 94
Baths — Park Department	2,568 20
Independence Day	1,629 63
Labor Day	399 84
Memorial Day	1,100 00
Loan: —	
Cemetery	65,000 00
Sewer	144,000 00
Street Widening	14,000 00
Temporary	575,000 00
Sinking Funds: —	
Cambridge Bridge	14,000 00
Cambridge Bridge, Special	616 00
Clay Land	5,335 00
Harvard Bridge	8,800 00
Hospital	225 00
General	99,804 50
Improved Sewerage	7,678 00
Metropolitan Park Assessment	1,012 00
Park	23,386 67
Separate System of Drainage	550 00
Water	121,522 50
Interest	182,030 83
Interest upon Park Loans	54,210 00
Interest upon Water Loans	135,506 50
Taxes, Abatements	48,866 73
Tax: —	
Armory	10,348 61
County	106,119 75
Grade Crossings	9,330 14
National Bank	4,459 99
State	129,240 00
Tax Lien Account	316 15
Licenses	15 00
Trustee of Cemetery Fund	2,732 13
Total Payments	$4,287,403 83
Cash Balance in Treasury, November 30, 1905	296,589 62
	$4,583,993 45

NOV. 30, 1905 (INCLUSIVE), WITH WM. W. DALLINGER, CITY TREASURER.

Cr.

Amount brought forward	$4,583,993 45
	$4,583,993 45

TEMPORARY LOANS IN ANTICIPATION OF TAXES, NEGOTIATED IN THE YEAR ENDING NOVEMBER 30, 1905.

Date.	Maturity.	Amount.	
1905	**1905**		
January 16....	October 11....	$25,000	Discounted at 3.30 per cent. per annum.
January 16....	October 11....	25,000	" 3.30 " "
January 16....	October 11....	25,000	" 3.30 " "
January 16....	October 11...	25,000	" 3.30 " "
February 8....	October 12....	25,000	" 3.35 " "
February 8....	October 12....	25,000	" 3.35 " "
February 8....	October 12...	15,000	" 3.35 " "
February 8....	October 12....	15,000	" 3.35 " "
February 8....	October 12....	10,000	" 3.35 " "
February 8....	October 12....	10,000	" 3.35 " "
March 2...	October 13....	25,000	" 3.20 " "
March 14....	July 1....	35,000	" 3.00 " "
March 14....	July 1....	40,000	" 3.00 " "
April 10....	October 16 ..	90,000	" 3.16 " "
April 10....	October 16....	10,000	" 3.16 " "
September 5....	October 17....	25,000	" 3 65 " "
September 5 ...	October 17....	25,000	" 3.65 " "
September 5....	October 17....	25,000	" 3.65 " "
September 19....	October 18 ...	100,000	" 4.00 " "
		$575,000	Average interest rate 3.356 per cent.

These loans were all paid before the close of the financial year.

PARTICULARS CONCERNING THE BONDS NEGOTIATED DURING THE YEAR ENDING NOVEMBER 30, 1905.

Date of Bonds.	Amount.	Loan.	Years to Run.	Rate of Interest.	Purchaser.	Price Paid.	Basis.
1905							
Apr. 1...	$5,000	Park.....	40	3½	Trustees of the Cambridge Public Library	100.000	3.50
May 1...	45,000	Park.....	40	3½	Merrill, Oldham & Co.....	102.579	3.39
May 1...	150,000	Cambridge Bridge	40	3½	" " "	102.579	3.39
May 1...	84,000	Street	20	3½	" " "	101.639	3.39
May 1...	90,000	Sewer	30	3½	" " "	102.139	3.39
May 1...	20,000	Schoolhouse.....	20	3½	" " "	101.639	3.39
May 1...	950	Schoolhouse.....	20	3½	City Treasurer of Cambridge in trust for the Cemetery Fund...	100.000	3.50
Aug. 1...	20,000	Schoolhouse.....	20	3½	Merrill, Oldham & Co.....	101.000	3.39
Aug. 1...	5,000	Park	40	3½	" " "	101.40	3.39
Nov. 1...	1,500	Street.....	20	3½	City Treasurer of Cambridge in trust for the Cemetery Fund...	100.00	3.50
Dec. 1...	100,000	Cambridge Bridge.	40	3½	Merrill, Oldham & Co.....	100.10	3.45
May 1...	46,000	Water	20	3½	" " "	101.639	3.39
May 1...	250,000	Water (serial bonds maturing $12,500 each year from 1906 to 1925 inclusive).....	..	3½	Merrill, Oldham & Co.....	100.919	3.40
	$817,450						

RECAPITULATION.

Park Loans . .	$55,000 00	Schoolhouse Loans	$40,950 00
Cambridge Bridge Loans	250,000 00	Water Loans . .	296,000 00
Street Loans . .	85,500 00		
Sewer Loans . .	90,000 00	Total issue . .	$817,450 00

FEES.

During the year the Treasurer has received official fees amounting to $2,430.81, itemized as follows: —

Summonses to delinquents	$1,709 34	
Preparing advertisements of sale	384 00	
Advertisements of sale	638 43	
Posting notices of sale	63 00	
Making tax deeds	236 00	
Recording affidavits	18 90	
Collector's fees under Chapter 443, Acts 1902 . .	6 00	
		$3,055 67

These fees were all turned into the City Treasury as received.

CEMETERY FUND.

Received during year ending November 30, 1905, from proprietors of lots in Cambridge Cemetery . .	$2,732 13	
Which added to amount of fund December 1, 1904 .	62,714 10	
Makes the present amount		$65,446 23

The interest received on the Fund for the year was $2,294.37, which has been paid to the Commissioners of the Cambridge Cemetery for the care of all lots placed in perpetual care.

The assets of the Fund, as of November 30, 1905, are invested as follows, viz.: —

Registered bonds of City of Cambridge amounting to .	$64,350 00	
Deposited in Cambridgeport Savings Bank . .	1,110 48	
		$65,460 48
Fund for perpetual care of lots is	$65,328 48	
Fund for Deeds in Trust is	132 00	
		$65,460 48

This fund is held in trust by the City Treasurer.

SARAH E. RUSSELL FUND.

This is a Fund bequeathed by the late Sarah E. Russell of Cambridge, in 1898, "the income therefrom to be annually expended in or towards providing a Christmas tree or Christmas gifts and entertainments for the inmates at the time of the Cambridge Almshouse."

The amount of the bequest was $814.41, and was deposited in the Cambridgeport Savings Bank, where it now remains.

The interest accumulations to November 30, 1905, have been paid to Mr. C. E. Goodrow, Superintendent of the City Home, to be used at the approaching Christmas as stipulated in the will of Mrs. Russell.

WM. W. DALLINGER,
City Treasurer.

REPORT OF THE COMMISSIONERS OF THE SINKING FUNDS OF THE CITY

To the Honorable, the City Council:—

The Commissioners of the several Sinking Funds of the City herewith submit their annual report, covering the year ending November 30, 1905. Our report shows the condition of the Sinking Funds under two divisions, first, Municipal; second, Water.

The following is the condition of the strictly Municipal Loan Funds:—

DR.

The amount of the Funds November 30, 1904, was	$873,343 60	
Received from the City of Cambridge the annual requirements as appropriated by the City Council for the several bonded loans	161,407 17	
Interest received on the invested Funds	35,971 30	
		$1,070,722 07

CR.

Paid the City Treasurer of Cambridge the amounts necessary to meet the several bonded loans as they matured, viz.:—		
Sewer Loan, 6's, matured July 1, 1905	$144,000 00	
Street widening, 6's, matured July 1, 1905	14,000 00	
Cemetery Loan, 4's, matured August 1, 1905	65,000 00	
Paid premium on investments purchased	507 70	
Paid accrued interest on investments purchased	2,030 48	
Leaving the total amount of the Funds November 30, 1905	845,183 89	
		$1,070,722 07

The following figures show the condition of the Water Loan Fund:—

DR.

Amount of the Fund November 30, 1904, was	$1,218,686 74	
The amount received from the City Treasury of Cambridge being the annual requirements for 1905, derived from the Water rates	121,522 50	
Interest received on invested Funds	44,358 81	
		$1,384,568 05

CR.

Paid accrued interest on investments purchased	$807 16	
Paid premiums on investments purchased	932 05	
Leaving amount of Fund November 30, 1905	1,382,828 84	
		$1,384,568 05

The Committee appointed to audit the accounts of the Treasurer of the Board reports that his accounts are correct and properly vouched, and

his books are well kept. A careful computation of the cash, bond and interest transactions of the Treasurer independent of his books proves the correctness of his accounts as follows: —

MUNICIPAL LOAN FUND.

BOND ACCOUNT.

Amount of bonds in the Fund November 30, 1904	$844,000 00	
Amount of bonds and notes purchased during the year	161,000 00	
		$1,005,000 00
Amount of bonds and notes matured during the year		161,000 00
Amount of bonds (at par value) in the Fund November 30, 1905		$844,000 00

CASH ACCOUNT.

Cash on hand November 30, 1904	$29,343 60		
Cash received from City Treasurer, annual requirements from taxation	161,407 17		
Cash received for interest on investments	35,971 30		
Cash received for matured bonds	161,000 00		
		$387,722 07	
Cash paid for bonds purchased	$161,000 00		
Cash paid for premium	507 70		
Cash paid for accrued interest	2,030 48		
Amount paid City Treasurer to redeem City debt falling due this year	223,000 00		
		386,538 18	
Cash on hand November 30, 1905			1,183 89
Total amount of Municipal Sinking Fund, November 30, 1905			$845.183 89

WATER LOAN FUND.

BOND ACCOUNT.

Amount of bonds in the Fund November 30, 1904	$1,187,600 00	
Amount of bonds purchased during the year	218,000 00	
		$1,405,600 00
Amount of bonds matured during the year		24,000 00
Amount of bonds (at par value) in the Fund November 30, 1905		$1,381,600 00

CASH ACCOUNT.

Cash on hand November 30, 1904	$31,086 74		
Cash received from water rates, fines, etc.	121,522 50		
Cash received for interest on investments	44,358 81		
Cash received for matured bonds	24,000 00		
		$220,968 05	
Cash paid for bonds purchased	$218,000 00		
Cash paid for premium on bonds purchased	932 05		
Cash paid for accrued interest on bonds purchased	807 16		
		219,739 21	
Cash on hand November 30, 1905			1,228 84
Total amount of Water Loan Sinking Fund November 30, 1905			$1,382,828 84

FRANK A. ALLEN,
GEORGE G. WRIGHT,
Auditing Committee.

Municipal Bonds amounting to $521,450.00 have been issued during this year. Municipal Bonds to the amount of $223,000.00 matured this year and were paid from this Fund. The total amount of the Funded Municipal Debt, exclusive of the Water Debt, now outstanding is $6,178,850.00. Deducting the present amount at par value, of the Sinking Fund, $845,183.89, leaves the net amount of the Municipal Funded Debt, November 30, 1905, $5,333,666.11. Showing a net increase of $326,609.71 during the current year. There will be due to this Fund from taxation in 1906 the sum of $165,119.70. No Municipal Bonds mature or become due in the year 1906.

The property valuation of the City for 1905, real and personal, as declared by the Assessors is $103,845,600.00, a decrease of $982,000.00 from the valuation of 1904.

Bonds to the amount of $296,000.00 on account of the Cambridge Water Works have been issued this year. Of this amount $250,000.00 were in Serial Bonds falling due in equal amounts during the next twenty years. These bonds require no contribution to the Sinking Fund. The total amount of the Water Debt now outstanding is $3,646,600.00. Deducting the par value of the Water Loan Sinking Fund $1,382,828.84, leaves the net Water Debt, November 30, 1905, $2,263,771.16. During the next year bonds to the amount of $43,000.00 will mature and will be paid from this Fund. There will be due to this Fund from Water Rates, etc., in 1906, the sum of $123,247.50. We are happy to report

that owing to the condition of the money market we have been able to secure investments on a more favorable basis than for a good many years, having purchased Municipal Bonds netting 3.43, 3.45, 3.47 and in some cases 3 1-2 per cent. Appended is a list of the investments of the funds.

FRANK A. ALLEN,
GEORGE H. HOWARD,
GUSTAVUS GOEPPER,
AUSTIN FORD,
GEORGE G. WRIGHT,
THOMAS F. ROYLE,

Commissioners of the Sinking Funds of the City of Cambridge.

The following are the investments belonging to the Municipal Funds: —

			Maturing		
Cambridge	City bonds	3 1-2s,	Nov. 1, 1909	$32,000 00	
"	" "	3 1-2s,	Nov. 1, 1911	36,000 00	
"	" "	3 1-2s,	Nov. 1, 1919	18,000 00	
"	" "	3 1-2s,	Nov. 1, 1921	27,000 00	
"	" "	3 1-2s,	Nov. 1, 1929	42,000 00	
					$155,000 00
Gloucester	City bonds	4s,	May 1, 1906	$2,000 00	
Quincy	" "	4s,	July 1, 1906	1,000 00	
Fitchburg R. R. Co.		4s,	April 1, 1907	50,000 00	
Watertown	Town "	3 1-2s,	Jan. 1, 1908	9,000 00	
Somerville	City "	4s,	July 1, 1908	8,000 00	
Belmont	Town "	4s,	Oct. 1, 1908	15,000 00	
Medford	City "	4s,	Dec. 15, 1908	10,000 00	
New Bedford	" "	3 1-2s,	Feb. 1, 1909	40,000 00	
Pawtucket, R. I.	" "	4s,	July 1, 1909	30,000 00	
Watertown	Town "	3 1-2s,	Aug. 1, 1909	15,000 00	
Beverly	City "	4s,	July 1, 1911	9,000 00	
Medford	" "	4s,	July 1, 1911	26,000 00	
Boston & Lowell R. R. Co.		4s,	Feb. 1, 1913	1,000 00	
Allegheny, Pa.	City bonds	3 1-2s,	Oct. 1, 1914	22,000 00	
Medford	" "	4s,	July 1, 1915	23,000 00	
Allegheny, Pa.	" "	3 1-2s,	Oct. 1, 1915	22,000 00	
Watertown	Town "	3 1-2s,	Jan. 1, 1916	7,000 00	
Melrose	City "	4s,	Feb. 24, 1916	10,000 00	
Brockton	" "	3 1-2s,	July 1, 1916	5,000 00	
Boston & Lowell R. R. Co.		4s,	July 1, 1916	10,000 00	
Fitchburg R. R. Co.		4s,	July 1, 1916	10,000 00	
Allegheny, Pa.	City bonds	3 1-2s,	Oct. 1, 1916	22,000 00	
Watertown	Town "	3 1-2s,	Jan. 1, 1917	9,000 00	
Watertown	" "	3 1-2s,	Jan. 1, 1918	9,000 00	
Amounts carried forward				$365,000 00	$155,000 00

Amounts brought forward					$365,000 00	$155,000 00
Marlborough	City	bonds	4s,	July 1, 1918	10,000 00	
Medford	"	"	4s,	Aug. 1, 1918	50,000 00	
Watertown	Town	"	3 1-2s,	Jan. 1, 1919	9,000 00	
Boston	City	"	3 1-2s,	July 1, 1919	5,000 00	
Watertown	Town	"	3 1-2s,	Jan. 1, 1920	9,000 00	
Stoughton	"	"	4s,	June 1, 1920	2,000 00	
Watertown	"	"	3 1-2s,	Jan. 1, 1921	9,000 00	
Watertown	"	"	3 1-2s,	Jan. 1, 1922	9,000 00	
Reading	"	"	4s,	June 1, 1922	5,000 00	
Boston	City	"	3 1-2s,	June 1, 1922	53,000 00	
Boston	"	"	3 1-2s,	June 1, 1923	66,000 00	
Reading	Town	"	4s,	June 1, 1923	5,000 00	
Medford	City	"	4s,	July 1, 1923	2,000 00	
Old Colony R. R. Co			4s,	Dec. 1, 1925	50,000 00	
Fitchburg R. R. Co.			4s,	Mar. 1, 1927	40,000 00	
						689,000 00
						$844,000 00
Cash in bank						1,183 89
						$845,183 89

The following are the investments belonging to the Water Loan Funds:—

				Maturing		
Cambridge	City	bonds	3 1-2s,	Nov. 1, 1912	$20,000 00	
"	"	"	4s,	Feb. 1, 1913	2,000 00	
"	"	"	3 1-2s,	May 1, 1913	5,500 00	
"	"	"	3 1-2s,	May 1, 1915	12,500 00	
"	"	"	3 1-2s,	May 1, 1916	11,500 00	
"	"	"	4s,	Oct. 1, 1916	65,100 00	
"	"	"	3 1-2s,	May 1, 1917	12,500 00	
"	"	"	3 1-2s,	Dec. 1, 1917	40,000 00	
"	"	"	3 1-2s,	May 1, 1919	12,500 00	
"	"	"	3 1-2s,	Nov. 1, 1919	20,000 00	
"	"	"	3 1-2s,	May 1, 1920	12,500 00	
"	"	"	4s,	Nov. 1, 1920	5,000 00	
"	"	"	3 1-2s,	May 1, 1921	12,500 00	
"	"	"	3 1-2s,	May 1, 1922	12,500 00	
"	"	"	3 1-2s,	May 1, 1923	12,500 00	
"	"	"	3 1-2s,	May 1, 1924	12,500 00	
						$269,100 00
Brookline	Town	"	3 15-100s,	April 1, 1906	$20,000 00	
Providence, R. I.	City	"	5s,	July 1, 1906	50,000 00	
Brockton	"	"	3 1-2s,	Aug. 1, 1906	2,000 00	
Hull	Town	"	3 1-2s,	Sept. 14, 1906	2,300 00	
Wakefield	"	"	4s,	Oct. 1, 1906	6,000 00	
Malden	City	"	4s,	Nov. 1, 1906	5,000 00	
Amounts carried forward					$85,300 00	$269,100 00

Amounts brought forward				$85,300 00	$269,100 00
Troy, N. Y.	City bonds	3 1-2s,	Nov. 15, 1906	2,000 00	
Brockton	" "	3 1-2s,	Aug. 1, 1907	2,000 00	
Wakefield	Town "	4s,	Oct. 1, 1907	6,000 00	
Malden	City "	4s,	Nov. 1, 1907	5,000 00	
Troy, N. Y.	" "	3 1-2s,	Nov. 15, 1907	2,000 00	
Hull	Town "	4s,	May 1, 1908	5,000 00	
Brockton	City "	3 1-2s,	Aug. 1, 1908	2,000 00	
Methuen	Town "	4s,	Aug. 1, 1908	10,000 00	
Greenfield	" "	3 1-2s,	Oct. 15, 1908	6,000 00	
Malden	City "	4s,	Nov. 1, 1908	5,000 00	
Troy, N. Y.	" "	3 1-2s,	Nov. 15, 1908	2,000 00	
W. Springfield	Town "	3 1-2s,	Dec. 1, 1908	12,000 00	
New Bedford	City "	3 1-2s,	Feb. 1, 1909	16,000 00	
Brockton	" "	3 1-2s,	Aug. 1, 1909	2,000 00	
Methuen	Town "	4s,	Aug. 1, 1909	15,000 00	
Greenfield	" "	3 1-2s,	Oct. 15, 1909	6,000 00	
Malden	City "	4s,	Nov. 1, 1909	5,000 00	
Fitchburg	" "	3 1-2s,	Nov. 1, 1909	8,000 00	
Essex, County of	County "	3 1-2s,	Nov. 8, 1909	5,000 00	
Troy, N. Y.	City "	3 1-2s,	Nov. 15, 1909	2,000 00	
Revere	Town "	3 1-2s,	April 1, 1910	12,000 00	
Taunton	City "	3 1-2s,	June 1, 1910	21,000 00	
Newburyport	" "	3 1-2s,	June 1, 1910	12,000 00	
Springfield	" "	3 1-2s,	July 1, 1910	8,700 00	
Somerville	" "	4s,	July 1, 1910	8,000 00	
Brockton	" "	3 1-2s,	Aug 1, 1910	2,000 00	
Salem	" "	3 1-2s,	Sept. 1, 1910	5,000 00	
Gloucester	" "	3 1-2s,	Oct. 1, 1910	10,000 00	
Greenfield	Town "	3 1-2s,	Oct 15, 1910	6,000 00	
Fitchburg	City "	3 1-2s,	Nov. 1, 1910	8,000 00	
Essex, County of	County "	3 1-2s,	Nov. 8, 1910	5,000 00	
Troy, N Y.	City "	3 1-2s,	Nov. 15, 1910	2,000 00	
Revere	Town "	3 1-2s,	April 1, 1911	4,000 00	
Holyoke	City "	3 1-2s,	May 1, 1911	7,500 00	
Taunton	" "	3 1-2s,	June 1, 1911	35,000 00	
Springfield	" "	3 1-2s,	July 1, 1911	8,700 00	
Brockton	" "	3 1-2s,	Aug. 1, 1911	2,000 00	
Newburyport	" "	3 1-2s,	Sept. 1, 1911	2,000 00	
Salem	" "	3 1-2s,	Sept. 1, 1911	5,000 00	
Greenfield	Town "	3 1-2s,	Oct. 15, 1911	12,000 00	
Newton	City "	3 1-2s,	Nov. 1, 1911	12,500 00	
Fitchburg	" "	3 1-2s,	Nov. 1, 1911	8,000 00	
Troy, N. Y.	" "	3 1-2s,	Nov. 15, 1911	2,000 00	
New Bedford	" "	3 1-2s,	Mar. 1 1912	15,000 00	
Pittsburg, Pa.	" "	3 1-4s,	Apr. 1, 1912	10,000 00	
Holyoke	" "	3 1-2s,	May 1, 1912	7,500 00	
Worcester	" "	3 1-2s,	July 1, 1912	35,000 00	
Amounts carried forward				$469,200 00	$269,100 00

Amounts brought forward				$469,200 00	$269,100 00
Springfield	City bonds	3 1-2s,	July 1, 1912	8,700 00	
Brockton	" "	3 1-2s,	Aug. 1, 1912	2,000 00	
Newburyport	" "	3 1-2s,	Sept. 1, 1912	7,000 00	
Salem	" "	3 1-2s,	Sept. 1, 1912	5,000 00	
Wakefield	Town "	4s,	Oct. 1, 1912	1.000 00	
Gloucester	City "	3 1-2s,	Oct. 1, 1912	10,000 00	
Lynn	" "	3 1-2s,	Oct. 1, 1912	3,000 00	
Fitchburg	" "	3 1-2s,	Nov. 1, 1912	8,000 00	
Troy, N. Y.	" "	3 1-2s,	Nov. 15, 1912	2,000 00	
Holyoke	" "	3 1-2s,	May 1, 1913	7,500 00	
Newburyport	" "	3 1-2s,	June 1, 1913	12,000 00	
Springfield	" "	3 1-2s,	July 1, 1913	8,700 00	
Brockton	" "	3 1-2s,	Aug. 1, 1913	2,000 00	
Newburyport	" "	3 1-2s,	Sept. 1, 1913	7,000 00	
Salem	" "	3 1-2s,	Sept. 1, 1913	5.000 00	
Gloucester	" "	3 1-2s,	Oct 1, 1913	10,000 00	
Fitchburg	" "	3 1-2s,	Nov. 1, 1913	8,000 00	
Troy, N. Y.	" "	3 1-2s,	Nov. 15, 1913	2,000 00	
Holyoke	" "	3 1-2s,	May 1, 1914	7,500 00	
Springfield	" "	3 1-2s,	July 1, 1914	6,700 00	
Salem	" "	3 1-2s,	Sept. 1, 1914	5 000 00	
Newburyport	" "	3 1-2s,	Sept. 1, 1914	7,000 00	
Troy, N. Y.	" "	3 1-2s,	Nov. 15, 1914	2,000 00	
Lynn	" "	4s,	Jan. 1, 1915	16,000 00	
Revere	Town "	3 1-2s,	Apr. 1, 1915	1,000 00	
Weymouth	" "	3 1-2s,	May 1, 1915	2,500 00	
Holyoke	City "	3 1-2s,	May 1, 1915	7,500 00	
Newburyport	" "	3 1-2s,	June 1, 1915	12,000 00	
Springfield	" "	3 1-2s,	July 1, 1915	5,700 00	
Brockton	" "	3 1-2s,	Aug. 1, 1915	1,000 00	
Newburyport	" "	3 1-2s,	Sept. 1, 1915	7,000 00	
Salem	" "	3 1-2s,	Sept. 1, 1915	5,000 00	
Gloucester	" "	3 1-2s,	Oct. 1, 1915	10,000 00	
Troy, N. Y.	" "	3 1-2s,	Nov. 15, 1915	2,000 00	
Weymouth	Town "	3 1-2s,	May 1, 1916	2,500 00	
Holyoke	City "	3 1-2s,	May 1, 1916	7,500 00	
Springfield	" "	3 1-2s,	July 1, 1916	3,500 00	
Salem	" "	3 1-2s,	Sept. 1, 1916	5,000 00	
Gloucester	" "	3 1-2s,	Oct. 1, 1916	10,000 00	
Wellesley	Town "	4s,	Mar. 1, 1917	2,000 00	
Waltham	City "	4s,	April 1, 1917	24,000 00	
Revere	Town "	3 1-2s,	April 1, 1917	12,000 00	
Weymouth	" "	3 1-2s,	May 1, 1917	2,500 00	
Holyoke	City "	3 1-2s,	May 1, 1917	7,500 00	
Salem	" "	3 1-2s,	Sept. 1, 1917	5,000 00	
Gloucester	" "	3 12-s,	Oct. 1, 1917	10,000 00	
Hallowell, Me	" "	4s,	Jan. 1, 1918	15,000 00	
Amounts carried forward				$782,500 00	$269,100 00

Amounts brought forward					$782,500 00	$269,100 00
Wellesley	Town bonds	4s,	Mar. 1, 1918		1,000 00	
Weymouth	" "	3 1-2s,	May 1, 1918		2,500 00	
Holyoke	City "	3 1-2s,	May 1, 1918		7,500 00	
Salem	" "	3 1-2s,	Sept. 1, 1918		5,000 00	
Gloucester	" "	3 1-2s,	Oct. 1, 1918		10,000 00	
Weymouth	Town "	3 1-2s,	May 1, 1919		2,500 00	
Newburyport	City "	3 1-2s,	June 1, 1919		11,000 00	
Salem	" "	3 1-2s,	Sept. 1, 1919		5,000 00	
Boston	" "	3 1-2s,	Oct. 1, 1919		6,000 00	
Revere	Town "	3 1-2s,	April 1, 1920		2,000 00	
Weymouth	" "	3 1-2s,	May 1, 1920		2,500 00	
Penobscot Shore Line R.R.Co.		4s,	Aug. 1, 1920		25,000 00	
Fitchburg R. R. Co.		3 1-2s,	Oct 1, 1920		50,000 00	
Revere	Town bonds	3 1-2s,	April 1, 1922		7,000 00	
Quincy	City "	4s,	May 1, 1923		2,000 00	
Quincy	" "	4s,	May 1, 1924		1,000 00	
Rochester, N. Y.	" "	3 1-2s,	July 1, 1924		35,000 00	
Quincy	" "	4s,	May 1, 1925		2,000 00	
"	" "	4s,	May 1, 1926		3,000 00	
"	" "	4s,	May 1, 1927		3,000 00	
Attleborough	Town "	4s,	July 1, 1927		10,000 00	
Quincy	City "	4s,	May 1, 1928		3,000 00	
Winchester	Town "	4s,	June 1, 1928		6,000 00	
Quincy	City "	4s,	May 1, 1929		3,000 00	
Fall River	" "	3 1-2s,	Nov. 1, 1929		75,000 00	
Quincy	" "	4s,	May 1, 1930		3,000 00	
"	" "	4s,	May 1, 1931		3,000 00	
"	" "	4s,	May 1, 1932		1,000 00	
Newton	" "	4s,	Aug. 1, 1935		2,000 00	
Newton	" "	4s,	July 1, 1936		11,000 00	
Grafton	Town "	3 1-2s,	July 1, 1937		1,000 00	
Old Colony R. R. Co.		4s,	Jan. 1, 1938		25,000 00	
Grafton	Town bonds	3 1-2s,	July 1, 1938		2,000 00	
Grafton	" "	3 1-2s,	July 1, 1939		2,000 00	
						1,112,500 00
						$1,381,600 00
Cash in bank						1,228 84
						$1,382,828 84

The bonded City Debt matures as follows, viz. : —

Nov. 1, 1907, Sewer	4s	$30,000 00	
Nov. 1, 1907, Paving	3 1-2s	20,000 00	
Nov. 1, 1907, Schoolhouse	3 1-2s	9,500 00	
Nov. 1, 1907, Street	3 1-2s	11,000 00	
Aug. 1, 1908, City	3 1-2s	4,900 00	
July 1, 1909, City	3 1-2s	45,000 00	
Amount carried forward		$120,400 00	

Amount brought forward			$120,400 00
Nov. 1, 1909, Sewer		4s	22,000 00
Nov. 1, 1909, City		3 1-2s	32,000 00
May 1, 1910, Sewer		4s	15,000 00
Nov. 1, 1910, Cemetery		3 1-2s	7,000 00
Nov. 1, 1910, City		3 1-2s	36,000 00
July 1, 1911, Sewer		4s	15,000 00
July 1, 1911, Clay Land		4s	50,000 00
Nov. 1, 1911, City		3 1-2s	36,000 00
July 1, 1912, City		3 1-2s	38,000 00
Nov. 1, 1912, Clay Land		3 1-2s	20,000 00
Nov. 1, 1912, City		3 1-2s	20,000 00
Aug. 1, 1913, Clay Land		3 1-2s	10,000 00
July 1, 1914, Clay Land		3 1-2s	17,000 00
Aug. 1, 1914, Building		4s	118,000 00
Aug. 1, 1914, Street		4s	30,000 00
Oct. 1, 1915, Building		4s	60,000 00
Oct. 1, 1915, Street		4s	60,000 00
July 1, 1916, Building		4s	70,000 00
Oct. 1, 1916, Street		4s	137,000 00
Oct. 1, 1916, Building		4s	33,000 00
Oct. 1, 1916, Sewer		4s	75,000 00
Oct. 1, 1916, Schoolhouse		4s	6,000 00
July 1, 1917, Schoolhouse		3 1-2s	100,000 00
Oct. 1, 1917, Harvard Bridge		4s	10,000 00
May 2, 1918, Schoolhouse		3 1-2s	100,000 00
May 2, 1918, Street		3 1-2s	15,000 00
June 1, 1918, Schoolhouse		3 1-2s	50,000 00
July 1, 1918, Harvard Bridge		4s	100,000 00
Aug. 1, 1918, Schoolhouse		3 1-2s	142,000 00
Sept. 1, 1918, Harvard Bridge		4s	100,000 00
Mar. 1, 1919, Harvard Bridge		4s	115,000 00
July 1, 1919, Schoolhouse		3 1-2s	42,000 00
Nov. 1, 1919, Street		3 1-2s	5,000 00
Nov. 1, 1919, Schoolhouse		3 1-2s	13,000 00
Nov. 1, 1920, Harvard Bridge		4s	5,000 00
Nov. 1, 1920, Street		3 1-2s	21,000 00
July 1, 1921, Harvard Bridge		4s	60,000 00
July 1, 1921, Street		3 1-2s	30,000 00
July 1, 1921, Cambridge Bridge		3 1-2s	24,000 00
July 1, 1921, Schoolhouse		3 1-2s	76,000 00
Nov. 1, 1921, Public Library		3 1-2s	27,000 00
July 1, 1922, Hospital		3 1-2s	6,000 00
July 1, 1922, Schoolhouse		3 1-2s	86,500 00
July 1, 1922, Street		3 1-2s	30,000 00
Oct. 1, 1922, Schoolhouse		3 1-2s	11,000 00
Nov. 1, 1922, Street		3 1-2s	14,000 00
Apr. 1, 1923, Street		3 1-2s	4,000 00
Amount carried forward			$2,213,900 00

Amount brought forward			$2,213,900 00
Apr. 1, 1923, Building		3 1-2s	3,000 00
Aug. 1, 1923, Harvard Bridge		4s	10,000 00
Oct. 1, 1923, Schoolhouse		3 1-2s	80,000 00
Nov. 2, 1923, Street		3 1-2s	12,000 00
Feb. 1, 1924, Park		4s	360,000 00
Apr. 1, 1924, Building		3 1-2s	25,000 00
Apr. 1, 1924, Schoolhouse		3 1-2s	80,000 00
May 1, 1924, Building		3 1-2s	5,000 00
Aug. 1, 1924, Sewer		4s	75,000 00
Sept. 1, 1924, Street		3 1-2s	59,000 00
Nov. 1, 1924, Building		3 1-2s	6,000 00
Nov. 1, 1924, Schoolhouse		3 1-2s	20,000 00
Nov. 1, 1924, Street		3 1-2s	6,500 00
May 1, 1925, Street		3 1-2s	5,000 00
May 1, 1925, Street		3 1-2s	50,000 00
May 1, 1925, Street		3 1.2s	25,000 00
May 1, 1925, Street		3 1-2s	4,000 00
May 1, 1925, Schoolhouse		3 1-2s	20,000 00
May 1, 1925, Schoolhouse		3 1-2s	950 00
Aug. 1, 1925, Schoolhouse		3 1-2s	20,000 00
Oct. 1, 1925, Sewer		4s	60,000 00
Nov. 1, 1925, Street		3 1-2s	1,500 00
Aug. 1, 1926, Park		4s	100,000 00
Oct. 1, 1926, Park		4s	40,000 00
Nov. 1, 1929, Sewer		3 1-2s	42,000 00
July 1, 1930, Sewer		3 1-2s	100,000 00
Aug. 1, 1931, Sewer		3 1-2s	110,000 00
Aug. 1, 1932, Metropolitan Park Assessment		3 1-2s	46,000 00
Nov. 1, 1932, Sewer		3 1-2s	20,000 00
Apr. 1, 1933, Sewer		3 1-2s	40,000 00
Oct. 1, 1933, Sewer		3 1-2s	20,000 00
May 1, 1934, Cambridge Bridge—Special Loan		3 1-2s	28,000 00
May 1, 1934, Sewer		3 1-2s	112,000 00
Nov. 1, 1934, Sewer		3 1-2s	5,000 00
May 1, 1935, Sewer		3 1-2s	90,000 00
Aug. 1, 1935, Park		4s	100,000 00
Feb. 1, 1936, Park		4s	100,000 00
Sept. 1, 1937, Park		3 1-2s	100,000 00
Nov. 1, 1937, Charles River Improvement		3 1-2s	50,000 00
June 1, 1938, Park		3 1-2s	50,000 00
Aug. 1, 1938, Park		3 1-2s	50,000 00
Aug. 1, 1938, Charles River Improvement		3 1-2s	50,000 00
July 1, 1939, Cambridge Bridge		3 1-2s	50,000 00
Aug. 1, 1939, Park		3 1-2s	100,000 00
July 1, 1940, Cambridge Bridge		3 1-2s	100,000 00
July 1, 1940, Park		3 1-2s	50,000 00
Nov. 1, 1940, Park		3 1-2s	50,000 00
Amount carried forward			$4,744,850 00

Amount brought forward			$4,744,850 00
Feb. 1, 1941, Cambridge Bridge	3s	100,000 00	
Oct. 1, 1941, Park	3 1-2s	100,000 00	
Nov. 1, 1941, Cambridge Bridge	3 1-2s	100,000 00	
July 1, 1942, Park	3 1-2s	48,000 00	
Aug. 1, 1942, Cambridge Bridge	3 1-2s	100,000 00	
Jan. 1, 1943, Cambridge Bridge	3 1-2s	50,000 00	
Apr. 1, 1943, Cambridge Bridge	3 1-2s	50,000 00	
Apr. 1, 1943, Park	3 1-2s	50,000 00	
Aug. 1, 1943, Cambridge Bridge	3 1-2s	50,000 00	
Jan. 1, 1944, Cambridge Bridge	3 1-2s	100,000 00	
May 1, 1944, Cambridge Bridge	3 1-2s	200,000 00	
Aug. 1, 1944, Cambridge Bridge	3 1-2s	100,000 00	
Sept. 1, 1944, Cambridge Bridge	3 1-2s	50,000 00	
Sept. 1, 1944, Park	3 1-2s	25,000 00	
Nov. 1, 1944, Park	3 1-2s	6,000 00	
Apr. 1, 1945, Park	3 1-2s	5,000 00	
May 1, 1945, Park	3 1-2s	30,000 00	
May 1, 1945, Park	3 1-2s	15,000 00	
May 1, 1945, Cambridge Bridge	3 1-2s	10,000 00	
May 1, 1945, Cambridge Bridge	3 1-2s	21,000 00	
May 1, 1945, Cambridge Bridge	3 1-2s	19,000 00	
May 1, 1945, Cambridge Bridge	3 1-2s	100,000 00	
Aug. 1, 1945, Park	3 1-2s	5,000 00	
Dec. 1, 1945, Cambridge Bridge	3 1-2s	100,000 00	
			$6,178,850 00

The bonded Water Debt matures as follows: —

May 1, 1906	3 1-2s	$12,500 00
Nov. 1, 1906	3 1-2s	43,000 00
May 1, 1907	3 1-2s	12,500 00
Oct. 1, 1907	4s	90,000 00
Nov. 1, 1907	4s	22,000 00
May 1, 1908	3 1-2s	12,500 00
July 1, 1908	4s	46,000 00
Aug. 1, 1908	4s	25,000 00
May 1, 1909	3 1-2s	12,500 00
July 1, 1909	4s	20,000 00
May 1, 1910	3 1-2s	12,500 00
May 2, 1910	4s	288,000 00
July 1, 1910	4s	75,000 00
Sept. 1, 1910	4s	125,000 00
Jan. 1, 1911	4s	20,000 00
May 1, 1911	3 1-2s	12,500 00
Oct. 1, 1911	4s	35,000 00
Jan. 1, 1912	4s	150,000 00
May 1, 1912	4s	75,000 00
May 1, 1912	3 1-2s	12,500 00
Amount carried forward		$1,101,500 00

Amount brought forward			$1,101,500 00
Nov. 1, 1912	4s	45,000 00	
Feb. 1, 1913	4s	100,000 00	
May 1, 1913	3 1-2s	12,500 00	
Aug. 1, 1913	4s	50,000 00	
May 1, 1914	3 1-2s	12,500 00	
April 1, 1915	4s	200,000 00	
May 1, 1915	3 1-2s	12,500 00	
Aug. 1, 1915	4s	200,000 00	
April 1, 1916	4s	100,000 00	
May 1, 1916	3 1-2s	12,500 00	
July 1, 1916	4s	200,000 00	
Aug. 1. 1916	4s	100,000 00	
Oct. 1, 1916	4s	265,100 00	
April 1, 1917	3 1-2s	200,000 00	
May 1, 1917	3 1-2s	12,500 00	
July 1, 1917	3 1-2s	100,000 00	
Nov. 1, 1917	3 1-2s	75,000 00	
Dec. 1, 1917	3 1-2s	140,000 00	
May 1, 1918	3 1-2s	12,500 00	
May 2, 1918	3 1-2s	50,000 00	
June 1, 1918	3 1-2s	60,000 00	
Nov. 1, 1918	3 1-2s	50,000 00	
May 1, 1919	3 1-2s	12,500 00	
Nov. 1, 1919	3 1-2s	23,000 00	
May 1, 1920	3 1-2s	12,500 00	
Nov. 1, 1920	3 1-2s	30,000 00	
May 1, 1921	3 1-2s	12,500 00	
July 1, 1921	3 1-2s	30,000 00	
May 1, 1922	3 1-2s	12,500 00	
July 1, 1922	3 1-2s	13,500 00	
Nov. 1, 1922	3 1-2s	5,000 00	
May 1, 1923	3 1-2s	12,500 00	
April 1, 1924	4s	300,000 00	
May 1, 1924	3 1-2s	12,500 00	
May 1, 1925	3 1-2s	12,500 00	
May 1, 1925	3 1-2s	15,000 00	
May 1, 1925	3 1-2s	26,000 00	
May 1, 1925	3 1-2s	5,000 00	
			$3,646,600 00

REPORT OF THE COMMITTEE ON FINANCE

The Committee on Finance submits herewith the customary annual report, it being for the City financial year ending November 30, 1905.

Below is given the usual condensed statement of the annual estimates as reported by this Committee at the beginning of the year, full details of which are to be found in the report of the City Auditor.

ESTIMATED REVENUE, 1905.

City Department accounts	$146,952 74	
Water Department accounts	358,000 00	
Other revenue	158,914 72	
Cash in Treasury December 1, 1904	186,945 26	
		$850,813 72

AGGREGATE AMOUNT OF APPROPRIATIONS RECOMMENDED.

	Revenue.	Expenses.
City Department accounts	$146,952 74	$2,321,512 47
Water Department accounts	358,000 00	397,441 29
	$504,952 74	$2,718,953 76

GENERAL CAPITULATION.

Total estimated expenses as before stated	$2,718,953 76
Estimated revenue and cash in Treasury	850,513 72
Leaving amount to be provided for	$1,868,140 04

To meet this requirement the report recommended as follows: —

1. — The issue of funded loans, viz: —		
Park Loan	$35,000 00	
Sewer Loan	90,000 00	
Street Loan	94,000 00	
Water Loan	46,500 00	
		$265,500 00
2. — Assessments upon the Polls and Estates of the inhabitants of Cambridge, etc., for the current year, being the amount required for the municipal expenses for the year		$1,602,640 04
		$1,868,140 04

In accordance with the foregoing, the usual orders were reported, viz :

One making appropriation aggregating the sum of		$2,718,953 76	
One for the Assessment on the Polls, etc.			$1,602,640 04
One for a Park Loan		$35,000 00	
One for a Sewer Loan, 30 years, (Improved Sewerage)	$50,000 00		
One for a Sewer Loan, 30 years, (Separate System)	25,000 00		
One for a Sewer Loan, 30 years, (General Construction)	15,000 00		
Total		90,000 00	
One for a Street Loan		94,000 00	
One for a Water Loan, Construction General		46,500 00	
			265,500 00
Total Loans recommended in the budget			$1,868,140 04

The amount recommended for the Street Loan, $94,000, was reduced by the City Council by the deduction of the sum of $10,000, making the same $84,000, the bonds for which were subsequently negotiated.

Besides the several recommendations above recited, the following additional loans to meet corresponding appropriations were recommended and authorized from time to time during the year, viz : —

Cambridge Bridge — Loans called for by the Bridge Commission under the authority of Chapter 467, Acts of 1898			$250,000 00
Park Loans			20,000 00
Schoolhouse Loans: —			
Enlargement of Roberts Schoolhouse		$20,950 00	
Manual Training School		20,000 00	
			40,950 00
Street Loan — Mount Auburn Bridge, approach			3,500 00
Water Loan — Pipe line from Hobbs Brook			250,000 00
Total			$564,450 00

As customary at the close of a financial year, a sub-committee of three was appointed to count the cash in the City Treasury and examine the accounts of the Treasurer at the close of business November 29th, the 30th being Thanksgiving Day. Alderman Edward B. James, President George

A. Giles and Councilman Henry C. Stetson performed this duty. Their report is as follows : —

To the Committee on Finance :—

GENTLEMEN :—The Sub-Committee appointed to count and examine the cash in the hands of the City Treasurer at the close of business on November 29, 1905, would respectfully report :—

November 29, 1905. Actual cash and business checks in City Treasurer's office amounted to . . .		$10,560 64	
Also, the following four certificates of deposit, showing balances (at the close of business November 29, 1905), to the credit of the City Treasurer :—			
1.—From W. F. Earle, Treasurer of Harvard Trust Company, of Cambridge, Mass., showing credit balance of	$219,484 13		
Deduct from this sundry checks not presented for payment, amount of	420 68		
Making net balance in above Trust Company of		219,063 45	
2.—From A. M. Wheeler, Assistant Treasurer of Cambridge Trust Company of Cambridge, Mass., showing credit balance of		42,424 03	
3.—From F. B. Wheeler, Cashier of Lechmere National Bank of Cambridge, Mass., showing credit balance of		35,621 62	
4.—From W. G. Davis, Treasurer of Central Trust Company of Cambridge, Mass., showing credit balance of		31,062 57	
Making total cash on hand			$338,732 31
December 16, 1905. After the above examination by your Committee, certain additional entries belonging to the financial year of 1905 were made, the receipts and expenditures which these same represent being as follows :—			
RECEIPTS.			
Account of City Home		$2 94	
Account of City Home Hospital		20 00	
Account of City Farm		716 93	
Account of House Offal		448 80	
Account of Licenses		36 00	
Account of City Clerk's Fees		27 25	
Account of Health Department		1,587 82	
Account of State Aid—Money uncalled for, on pay-rolls for November		12 00	
From Commonwealth of Massachusetts :—			
Account of Health Department—Contagious disease cases		167 14	
Account of State Aid		14,225 50	
Account of Corporation Tax		91,339 55	
Account of National Bank Tax, being amount received for stocks of Massachusetts banks outside of Cambridge, owned by Cambridge residents .		18,247 93	
Amount carried forward		$126,831 86	

Amount brought forward		$126,831 86	
Account of Taxes 1905		17,840 60	
Account of Assessments for Street Sprinkling . .		186 02	
Account of Interest:—			
On additional collections, Taxes 1905	$92 69		
Accrued interest on Cambridge Bridge Loan bond, sold as below	97 22		
		189 91	
Account of Treasury Department — Summonses on Taxes 1905		84 80	
Account of Water Department—Maintenance, Water Rates		998 55	
Account of Cambridge Bridge Loan—Bond issue .		100,000 00	
Account of Premium Account—Premium received on above bond		1,000 00	
A total of			$247,131 74
Which added to City Treasurer's cash balance as above makes a total of			$585,864 05

EXPENDITURES.

Authorized additional payments as of November 29, 1905:—			
Account of Weekly Pay-roll Draft No. 246 . . .		$6,682 80	
Paid Commonwealth of Massachusetts:—			
Account of Armory Tax		10,348 61	
Account of Grade Crossings Tax		9,330 14	
Account of Metropolitan Park Tax		39,570 87	
Account of Metropolitan Sewer Tax . . .		89,341 00	
Account of National Bank Tax, being refund of taxes on non-resident owners of stock in Cambridge banks		4,459 99	
Account of State Tax		129,240 00	
Account of Abatements—Taxes. Assessors certificates received and allowed on additional entries of 1905 taxes		260 27	
Account of Water Department—Maintenance, Abatements. Registrar's certificates received and allowed on additional entries of Water Rates . . .		40 75	
A total of			289,274 43
Which deducted from the foregoing total of receipts shows a balance in City Treasurer's hands, as of November 29, 1905, of			$296,589 62

Your Committee would further state that we examined the total cash receipts and expenditures, as per City Treasurer's ledger, and find the same to be as follows:—

Total cash receipts from all sources for year ending November 29, 1905	$4,336,995 73	
To this should be added cash balance of November 30, 1904	246,927 07	
A total of	$4,583,922 80	
Amount carried forward	$4,583,922 80	

Amount brought forward	$4,583,922 80
Total cash expenditures for year ending November 29, 1905, authorized by sundry drafts of the Mayor, which your Committee examined	4,287,333 18
Which amount deducted from above total of receipts, shows a cash balance as of November 29, 1905, as above, of	$296,589 62

The Sub-Committee were enabled to further verify the above statement of receipts and expenditures, by comparison with the City Auditor's statement for December, 1905.

Your Committee also examined the securities belonging to the several funds held in trust by the City Treasurer,—namely, the Cemetery Fund, $65,460.48; Sarah E. Russell Fund, $814.41—and find the same to be correct.

EDWARD B. JAMES,
GEORGE A. GILES,
HENRY C. STETSON,
Sub-Committee on Finance.

The foregoing report was accepted by the Committee and ordered to be incorporated in its annual report.

J. EDWARD BARRY,
JOHN T. HART,
EDWARD B. JAMES
JAMES F. QUINN,
GEORGE A. GILES,
JULIUS MEYERS,
FARWELL E. THAYER,
THOMAS P. O'NEIL,
HENRY C. STETSON,
RUSSELL A. WOOD,
Committee on Finance.

CITY CLERK'S REPORT OF FEES AND LICENSES

OFFICE OF THE CITY CLERK,

December 1, 1905.

To the Honorable, the City Council of the City of Cambridge:—

The undersigned herewith presents an account of the sums received for fees and licenses during the year ending November 30, 1905.

Auctioneers' Licenses	$38 00
Pool, Bowling Alley and Billiard Licenses	84 00
Wagon and Carriage Licenses	231 00
Intelligence Office Licenses	50 00
Junk Store and Collectors' Licenses	742 00
Fees from Peddlers' Licenses	109 00
Recording Mortgages, Assignments, etc.	601 25
Marriage Certificates	557 50
Certified Copies from Records	133 25
Fees from Dog Licenses	467 40
Fees from Liquor Licenses	60 00
Fees from Fireworks Licenses	86 00
Sundries	37 80
Total	$3,197 20

The foregoing amount has been paid into the City Treasury

The receipts from Dog Licenses have been $6,133.00. Of this amount, the City Clerk's fee (20 cents for each license issued), amounting to the sum of $467.40 is included in the above list of fees, and the balance, amounting to $5,665.60, has been paid the County Treasurer.

Respectfully submitted,

EDWARD J. BRANDON,
City Clerk.

REPORT OF THE BOARD OF PARK COMMISSIONERS

To the Honorable, the City Council of the City of Cambridge:—

Gentlemen:— We have the honor to herewith submit the thirteenth annual report of the Board of Park Commissioners, together with the twelfth annual report of the General Superintendent of Parks, as required by Section 4 of the Ordinance establishing a Park Department.

In reviewing the large amount of work accomplished during the past year we are pleased with the conspicuous showing that an anxious public has so long waited for: viz., the near approach of the completion of the river roads.

The laying out of new playgrounds in various parts of the City, when suggested by the different branches of the City Government, has had our consideration, but they might more readily materialize, if, with the order, came the necessary appropriation for labor and maintenance. Granted, that many small parks and breathing places, constructed and properly cared for throughout the City, would be alike appreciated and beneficial, it must be borne in mind that we must meet the demands that the coming appearance of our river front is sure to present. Particular attention should be given first to the completion of all that portion of the park system that is assured of permanent existence.

In anticipation of the beautiful aspect which the completed River Road and tideless water way will shortly present, it might be well to call your attention to a dangerous point, and also where a more symmetrical shore line should exist. Boylston Street is extended out into the river a considerable distance, and the bank on the upper side has been brought out to meet the bridge: while the jutting out of all this filling has so narrowed the stream that the converging of crew boats, sailing or motor boats and other pleasure craft may endanger not only the vessels, but the lives of those who use them.

This perhaps is, or will be, the most conspicuous point on the whole course of the river. Thousands and thousands of people from many miles distance cross the river here on their way to and from the Stadium, and the college crews have their quarters in the near vicinity; while vehicles of all descriptions convey their freight in either direction. We suggest

the cutting away of this superfluous projection, and the plans for the proposed new bridge be made in conformity with the necessary change in the conditions.

The result of our work we are pleased to present, and we earnestly ask your coöperation in the coming year's work in our endeavor to make the City's park system what it should be.

For a detailed account of the work of the year and also the expenditures, we refer you to the complete report of the General Superintendent, which accompanies the report of the Commissioners.

FINANCIAL STATEMENT.

PARK LOAN.

Amount of unused balance of 1904 appropriation reappropriated December 7, 1904		$5,423 87
Amount appropriated March 25, 1905		35,000 00
Amount appropriated May 11, 1905:—		
East Cambridge Embankment	$15,000 00	
Grading Rindge Field	1,000 00	
Shelter at Rindge Field	4,000 00	
		20,000 00
		$60,423 87

PARK MAINTENANCE.

Brown Tail Moth Extermination.		
Amount appropriated January 14, 1905	$4,000 00	
Amount appropriated March 9, 1905	2,000 00	
Amount appropriated April 5, 1905	1,000 00	
Amount appropriated June 15, 1905	1,000 00	
Amount appropriated September 1, 1905	2,000 00	
Amount appropriated November 16, 1905	2,000 00	
		$12,000 00
Cambridge Field and Shelter.		
Amount appropriated March 25, 1905		6,000 00
Common, Squares and Public Grounds.		
Amount appropriated March 25, 1905		5,000 00
Shade Trees.		
Amount appropriated March 25, 1905		5,000 00
Sections A, B, D, F and Rindge Field.		
Amount appropriated March 25, 1905		3,500 00
Sections G and H.		
Amount appropriated March 25, 1905		3,500 00
Bath House.		
Amount appropriated March 25, 1905	$2,100 00	
Revenue from Bath House (above $1,500.00)	171 93	
		2,271 93
General Account.		
Amount appropriated March 25, 1905		600 00

During the year bills payable from Park Loans have been approved by the Board and certified to the Auditor to the total amount of $50,467.17, as follows: —

PARK LANDS AND CONSTRUCTION.

River Parkway, Section A.		
Construction account	$6,388 80	
River Parkway, Section B.		
Construction account	3,309 47	
River Parkway, Section C.		
Construction account	1,880 82	
River Parkway, Section D.		
Construction account	13,314 96	
River Parkway, Section F.		
Construction account	5,885 20	
Nursery.		
Construction account	822 40	
General Account.		
Construction account	4,655 51	
Office Expenses.		
Construction account	962 17	
Rindge Field.		
Construction account	846 84	
East Cambridge Embankment.		
Construction account	12,401 00	
Amount expended		$50,467 17
Balance unexpended		9,956 70

During the year bills payable from Park Maintenance have been approved by the Board and certified to the Auditor, as follows: —

	Amount expended.	Balance unexpended.
Brown Tail Moth Exterimation	$11,324 05	$675 95
Cambridge Field and Shelter	5,999 54	46
Commons, Squares and Public Grounds	4,999 70	30
Shade Trees	4,999 23	77
Sections A, B, D, F and Rindge Field	3,499 81	19
Sections G and H	3,499 67	33
Bath House	2,271 04	89
General Account	598 80	1 20

A detailed classification of the expenditures will be found in the report of the General Superintendent.

Since the beginning of the work in 1893 there has been expended to date, of money raised under Park and Esplanade Loans, the sum of $1,485,487.73.

The division is as follows: —

River Parkway, Section A.		
Construction account	$161,331 32	
Land account	9,416 83	
		$170,748 15
River Parkway, Section B.		
Construction account	$96,892 87	96,892 87
River Parkway, Section C.		
Construction account	$77,342 00	
Land account	31,701 08	
		109,043 08
River Parkway, Section D.		
Construction account	$110,749 63	
Land account	95,047 25	
		205,796 88
River Parkway, Section E.		
Construction account	$935 72	
Land account	60,110 00	
		61,045 72
River Parkway, Section F.		
Construction account	$62,353 58	
Land account	67,491 62	
		129,845 20
River Parkway, Section G.		
Construction account	$120,669 41	
Land account	86,824 82	
		207,494 23
River Parkway, Section H.		
Construction account	$13,135 30	13,135 30
Cambridge Field.		
Construction account	$127,315 28	
Land account	78,884 85	
		206,200 13
East Cambridge Embankment.		
Construction account	$100,299 88	
Land account	45,231 40	
		145,531 28
General Account.		
Construction account	$52,485 80	52,485 80
Rindge Field.		
Construction account	$11,993 22	
Land account	31,461 85	
		43,455 07
Office Expenses.		
Construction account	$15,850 30	15,850 30

Broadway Park.		
Construction account	11,635 27	11,635 27
Nursery.		
Construction account	8,509 94	8,509 94
Improvements at Rindge Field.		
Construction account	3,845 93	3,845 93
Hastings Square.		
Construction account	2,683 07	2,683 07
Baths and Lockers.		
Construction account	2,500 00	2,500 00
Winthrop Square.		
Construction account.	1,866 26	1,866 26
Fort Washington.		
Construction account	929 79	929 79
Washington Elm.		
Construction account	466 98	466 98
Porter Square.		
Construction account	20 87	20 87
		$1.489,982 12
Less Park revenue for 1894 and 1896 merged into land and construction accounts		4,494 39
		$1,485,487 73

Of the whole amount of Park Loans expended to December 1, 1905, 34 per cent. has been for land and 66 per cent. for construction, as follows:—

Land account (less revenues)	$501,675 31
Construction account	983,812 42
	$1,485,487 73

Respectfully submitted,

ANDREW J. CONLIN,
GEO. HOWLAND COX,
JNO. E. DWYER, M. D.,
Park Commissioners.

REPORT OF THE GENERAL SUPERINTENDENT OF PARKS

CAMBRIDGE, December 1, 1905.

To the Board of Park Commissioners of the City of Cambridge: —

GENTLEMEN: — I have the honor to present my third annual report as General Superintendent of Parks, covering the financial year of 1905.

SECTION A.

(Area 9.07 acres.)

Section A extends from the south line of Main Street as widened for the approach to the new bridge, to the west line of the third street east of Massachusetts Avenue.

Seven Welsbach lights have been maintained here during the year.

The trees on this section are in good condition.

During the year the loam spaces, lawns and ribbon strips were subgraded.

Eight hundred and thirty-five loads of filling were delivered here.

The inner ribbon strip from Section B to West Boston Bridge has been graded and sodded. The back walk has been regraded with 2,775 cubic yards of free filling, surfaced with cinders and rolled. The two lower lawns have been subgraded for loam and shrubbery. Both driveways are ready for a finished grading of gravel or macadam.

The plan of the approach to Cambridge Bridge by L. M. Hastings, City Engineer, is shown in this report. This does away with any land taking at the corner of the Parkway and Main Street that was necessary by other schemes. It provides for a continuation of the inner drive of the present lay-out straight to Main Street, with only a slight change in grade, a rise of about two feet. The outer drive swings into the First Street subway, with a drop in grade of six feet in about 300. Most of the slope from the Main Street incline will be taken by the oval loam space between Main Street and the driveway and will be screened by trees and large beds of shrubbery.

The following material has been received here: — 1,065.2 cubic yards ashes at a cost of $266.30; 539.42 cubic yards loam at a cost of $535.87.

SECTION B.

(Area 19.72 acres.)

Section B extends from the west line of the third street east of Massachusetts Avenue to the west line of the fourth street west of the Avenue, but does not include Massachusetts Avenue.

The usual number of men have been constantly employed during the season caring for the lawns, trees, shrubs and planted spaces.

The trees and shrubbery are in fair condition but more shrubbery should be planted in the early spring.

The settees are in good condition and much used. I would recommend the placing of more here the coming season.

The driveway and walks are in good condition; 1,500 cubic yards of free filling were used to raise the back walk to grade.

The ribbon strips, on account of settlement, have been brought to grade and resodded.

I would again recommend that the property owners build up their land to grade, thus avoiding the ragged appearance it has at present.

Part of the lower lawn on this section has been brought to grade.

The catch basins have been cleaned.

The iron fence is in a good condition.

Twenty-six Welsbach lights have been maintained during the year.

The roadway, on either side of the third and fourth lawns, west of Massachusetts Avenue, should be resurfaced.

There remains to be built on this section 357 feet of sea wall in order to complete the proposed plan.

Ninety-one and three-tenths cubic yards of ashes have been received here at a cost of $22.82.

SECTION C.

(Area 13.39 acres.)

Section C extends from the west line of the fourth street west of Massachusetts Avenue to the east line of Brookline Street, but does not include the right of way of the Grand Junction Railroad.

No construction work has been done here during the year.

Two thousand eight hundred fifty-nine and sixty-six one hundredths cubic yards of filling has been received at a cost of $476.61.

It is hoped that the bridge over the Boston & Albany Railroad will be built the coming year as some negotiations with the railroad officials have already been made.

With the railroad bridge built, the rest of the section should be completed at once. The grade of the bridge is nearly twenty feet higher than the present parkway, and large quantities of filling will be needed in the approach.

The finished plan calls for a beach from the end of the sea wall at Section B to Brookline Street. Large quantities of mud have already been dumped along the old bulkhead. I would recommend that more material be procured and the beach completed before the completion of the Charles River Basin, as it can be done much cheaper.

SECTION D.

(Area 38.31 acres.)

Section D extends from the west line of Brookline Street to the south line of River Street.

Twenty-nine Welsbach lights have been maintained. Eighteen on the driveway and eleven on the island, together with three arc lights on the beach during the bathing season.

The usual work has been done here during the season, two men having been constantly employed.

During the year large quantities of filling have been purchased at a very low cost and used for building the walks and widening the roadway.

The walks either side of the roadway, from Brookline Street to Magazine Street, which were in a poor condition, have been resurfaced with screened ashes and rolled to grade. The river walk, from the bath house to Pleasant Street, was completed, thus doing away with the dangerous foot bridge over the large marsh creek.

Pearl Street extension was brought up to finished grade, the roadway surfaced with gravel, the sidewalks built with cinders and the curbstone at the corner of Pearl Street and the Parkway raised to grade.

The trees and shrubbery have shown pleasing results and I would suggest that additional shrubbery be planted around the bath house.

As mentioned in my report of last year the bathing beach, owing to the action of the tides at this point, still shows considerable mud which should be removed and the beach resurfaced with sand.

I hope this year to be able to utilize the land bounded by Pearl, Granite and Magazine Streets and Charles River Road for tennis courts. This can be done at a very small cost, by placing over the entire surface a coating of cinders and top surfacing the same with street scrapings.

Last year numerous requests were received from mothers and kindergarten teachers for a wading pool for the smaller children, but nothing

has been done in regard to this up to the present time. We trust this will be installed the coming season, in accordance with the plan submitted by Olmstead Brothers.

The ball grounds were in great demand during the season and in order to accommodate the growing demand for baseball permits I would suggest that the remainder of the field be graded.

The bath house was open from June 17th to September 15th. The usual number of attendants, with an additional life guard, were employed each day from 9 A.M. to 10 P.M. with the exception of four hours at low tide. The estimated number of bathers was 53,575 and the total receipts from towels, suits and lockers $1,671.93. This is the largest amount derived from the bath house since 1901 and the second largest amount since the bath house was opened. The laundering has been done by Monk's Custom Laundry at a cost of $1.00 per 100 pieces. Early in the spring thirty dressing rooms were built by extending the men's house to the women's, but even with this additional room there was a scarcity of accommodations, which shows that a larger and more complete bath house will be the only solution of this problen.

The following material has been received at this section this year:— 21,760.16 cubic yards ashes at a cost of $5,440.04; 4,777.2 cubic yards filling at a cost of $1,194.30; 45.9 cubic yards loam at a cost of $9.18.

SECTION E.

(Area 1.77 acres.)

Section E extends from the north line of River Street to the south line of Western Avenue.

No construction work has been done here this year.

SECTION F.

(Area 13.89 acres.)

Section F extends from the north line of Western Avenue to the east line of Boylston Street.

The section has been kept in the usual good trim as required by its prominent location and popular use; the limited appropriations, however, have restricted the execution of any great amount of construction work being done.

Nine Welsbach lights have been maintained and more lights are needed.

The usual number of men have been employed caring for the road, walks, trees and shrubs.

The catch basins have been cleaned and put in good condition.

Considerable work has been done on the Parkway between De Wolfe Street and Western Avenue. The roadway from De Wolfe Street to Sands Street has been surfaced with gravel and rolled. The inner walk and ribbon strip was completed from Flagg Street to 200 feet below Sands Street. Edgestone was set at the corner of Flagg Street and Charles River Road.

The shrubbery on this section is in a poor condition and needs much new planting.

As yet nothing has been done with the two wharf properties, but it is hoped that the material may be used the coming year for shaping and perfecting the slope in the immediate vicinity.

The sea wall between Western Avenue and Stiles Street still remains to be built and should be given early attention so that the walks and roadway may be completed.

The planting space at the top of the beach, between Dunster and Plympton Streets, also between De Wolfe and Beaver Streets has been graded and is ready for spring planting.

The ribbon strips between Boylston and De Wolfe Streets have shown some settlement and require loam surfacing.

The iron fence east of Boylston Street is in good condition.

I would recommend that garden hydrants be installed between De Wolfe and Sands Streets for the benefit of the trees and ribbon strips.

I would suggest, that on account of the congested nature of the City at this section, a playground be provided as soon as possible, as the Park property suffers severely from vandalism, and immediate relief is necessary.

SECTION G.

(Area 16.07 acres.)

Section G extends from the west line of Boylston Street to the east line of the land of the Stillman Infirmary.

Twenty-six Welsbach lights have been maintained.

The usual number of men were employed caring for the roadway, walks, grass plots, trees and shrubs.

The iron fences at the top of the beach west of Boylston Street and also along Mt. Auburn Street are in good condition.

Your attention is again called to the condition of the beach along the entire section. That portion of the paved beach between Murray and Boylston Streets should be repaved as soon as possible.

The portion of the gravel beach between the Stillman Infirmary and the Gas Wharf should be resurfaced with gravel.

During the early fall several men were employed cleaning out the dead wood and adding new shrubbery to this section.

Owing to settlement, the roads, walks and ribbon strips should be regraded, the curbing reset and the gutters relaid.

SECTION H.

(Area 1.44 acres.)

Section H extends from the east line of the land of the Stillman Infirmary to the Metropolitan Park taking at Gerry's landing.

During the season the trees and grass have been cared for as usual and the section is in very good condition.

The iron fence has been repaired and painted.

CAMBRIDGE FIELD.

(Area 12.64 acres.)

Considerable work has been done here during the season.

The usual number of men were employed.

Sixty-five and five-tenths cubic yards of loam were received at a cost of $54.20, and used in building up the shrubbery beds and regrading settlements in the lawns.

The shrubbery beds have been thoroughly inspected and carefully cleaned and trimmed.

Considerable trouble was experienced with the trees, a number dying during the hot spell the first of the season. Fourteen dead ones were removed; but by treating with manure and watering well, the rest were revived.

The ball grounds were rolled and regraded, and are in a very fair condition. They were well patronized during the ball season. There is a steadily growing demand for base ball grounds in this part of the City. The demand for seats or bleachers is as urgent as ever and I hope that sufficient appropriation will be made so that we can build some seats on the ground this coming spring.

Sand courts have been enjoyed by the thousands of little children and I would again recommend some sort of a covering to protect them from the sun during the extremely hot weather.

During the winter season the field was flooded and skating enjoyed by a large number from all parts of our City. This skating field is patronized largely because the water is so shallow that safety is a

certainty. I would call attention to the poorly lighted condition of the field, the seven lights being insufficient, especially during the skating season.

The running track, which up to the past season has not been used to any great extent, sprang into prominence after the opening of the shower baths.

I have been beseiged with requests for band concerts and I hope the Commissioners will look favorably upon this matter.

It has already been shown that the establishing of a playground on this field has been of inestimable value to the people. Playgrounds should be more than mere pleasure grounds, and the benefits derived from them by our children would be increased by introducing into them a regular outdoor gymnasium, under proper physical training. The success of the Charles Bank gymnasium, an open air gymnasium of the City of Boston, should lead us to adopt the same system in our City. This can be established at a comparatively small expense. We have an excellent site for the construction of just such a gymnasium and I am sure it would be a step in the right direction. I hope the Commissioners will give this matter their earnest consideration as I know it to be a much needed want.

THE SHELTER.

The Shelter on the field has been renovated and is in a fair condition. The shower baths were opened for the first time July 15th and have been well patronized and thoroughly enjoyed. Considerable repairing had to be done before they were opened, however, and new apparatus added. A floor was laid in the locker room and benches built; a counter and shelves for holding and distributing soap and towels were placed just outside the locker room entrance.

The shower baths are open from 1 to 10 P. M. on Tuesday and Thursday for women and the rest of the week for men. One attendant is constantly employed. A charge of two cents for a piece of soap and a towel has been made and from this a revenue received amounting to $32.06.

The following table shows the number of bathers from July 15th to November 30th: —

Men	3,625
Women	986
Boys	5,900
Girls	2,467
Total	12,978

RINDGE FIELD AND NURSERY.

(Area 11.52 acres.)

One man has been constantly employed here caring for the Nursery, and also the lawns of the Sleeper School.

The large lawn and walks in the front of the field were laid out and partially completed this fall. The field cannot be wholly completed until the schoolhouse at the corner of Rindge Avenue and Groveland Road is removed and I hope this will be done this coming year. A temporary walk was constructed across the lawn from Rindge Avenue parallel to the schoolhouse fence. A planting plan of the field was received from Olmstead Brothers and planting will be done in the early spring.

The rest of the unfinished field can be completed at a very small cost as the material for same is right on the ground.

Plans and specifications were made for a shelter and bids asked for. These were rejected, however, as none came within the appropriation of $4,000. It is hoped that an additional appropriation may be obtained and the shelter built this coming year.

The swings, tilts and sand courts were in constant demand by the children during the summer season.

It is important that when the field is open that it should become a success, in order to induce respect from the people who will frequent the place.

Experience teaches that when such a ground is finished in a poor manner the public is very apt to abuse it, while if the finish is good and the arrangements ample and attractive, improved behavior follows. I would recommend the removal of the old wooden fence that now encloses the field and that a stone curbing be substituted.

The trees and plants at the Nursery are in good condition.

The following inventory gives an account of the stock on hand in the Nursery:—

TREES.

Acer platanoides	26
Acer saccharum	7
Acer saccharinum	10
Fagus ferruginea	10
Fraxinus Americana	10
Platanus orientalis	6
Populus Bolleana	7
Populus fastigiata	20
Quercus rubra	236
Quercus macrocarpa	113
Salix pentandra	7
Salix Wisconsin	4
Tilia Americana	42
Ulmus Americana	70

SHRUBS.

Amorpha fruticosa	6
Andromeda floribunda	10
Andromeda japonica	3
Aralia pentaphylla	34
Azalea amoena	12
Baccharis halimifolia	20
Buxus sempervirens	20
Calycanthus floridus	21
Caragana arborescens	40
Celastrus scandens	30
Cephalanthus occidentalis	10
Clethra alnifolia	200
Cornus alba	13
" circinata	18
" florida	30
" paniculata	21
" sericea	100
" siberica	5
" sanguinea	51
Crataegus oxycantha	60
Deutzia crenata	12
Deutzia gracilis	6
Diervilla rosea	3
Eleagnus longipes	14
Euonymus Americana	2
Euonymus radicans	100
Exochorda grandiflora	30
Forsythia fortuneii	100
Forsythia viridissima	70
Hydrangea asplenifolia	43
Hydrangea paniculata	1
Ilex glabra	15
Ilex verticillata	10
Juniperus	3
Kalmia latifolia	25
Kerria japonica	100
Ligustrum ibota	26
Ligustrum vulgaris	16
Lonicera brachypoda	50
" halliana	60
" tatarica alba	24
" tatarica	60
Lycium barbarum	10
Mahonia aquifolia	10
Philadelphus coronarius	20
Periploca graeca	10
Rhamnus catharticus	20
Rhododendrons	30
Rhus aromatica	12
" canadensis	35
" typhina	20
Ribes aureum	3
Rosa blanda	23
" multiflora	20

Rosa nitida	1
" rugosa	400
" setigera	8
" wichuraiana	3
Rubus ordorata	60
Spiræa Anthony Waterer	46
" billardii	10
" bumalda	37
" callosa	4
" pruniflora	7
" salicifolia	32
" Van Houteii	60
" tomentosa	48
Staphylea trifolia	30
Stephanandra flexuosa	20
Symphoricarpos racemosus	37
" vulgaris	40
Syringa vulgaris	26
Tecoma radicans	2
Tamarix africana	12
Viburnum acerfolia	39
" dentatum	11
" lantana	46
" lentago	2
" opulis	27
" opulis nana	5
" tomentosa	14
Xanthorrhiza apiifolia	40

EAST CAMBRIDGE EMBANKMENT.

(*Area 8.35 acres.*)

Considerable work has been done here during the season under very difficult circumstances, as this place has been extensively used by the City of Boston as a dumping ground for a number of years.

The work performed here during the year consisted largely of sub-grading roads, walks, shrubbery beds and tree pits.

A considerable portion of the unfilled section at the lower end has been filled without expense to the City.

Five hundred and fourteen and eight-tenths cubic yards of ballast was purchased during the season at a cost of $772.20 and placed back of the sea wall, completing the ballasting needed at this section.

As the finished plan of this section has not been decided upon the filled portion was graded at a level sub-grade, allowing for a surface of loam or gravel, as may be determined later. The ten foot grass and tree strip on the east side of Commercial Avenue has been nearly completed and the trees planted.

As stated in my report of last year, there is a great demand for a bathing beach at this point.

I sincerely hope that a beach may be placed on the finished plan, as it is certainly a much needed want. It would add greatly to the unfinished appearance which now exists and would be to Cambridge what the Charlesbank is to Boston.

The development of this section is of great importance to Cambridge, both from a humanitarian and industrial standpoint; the people of a congested district will secure a river park, and manufacturers will find here the most favorable site for business purposes within the vicinity of Boston.

I am convinced that this will be finally considered one of the most successful parts of the entire park system, therefore, its development should not be neglected.

Commercial Avenue is now filled to grade to Lechmere Canal. The proposed bridge across the canal will complete the connection and open a thoroughfare from the lower parts of Cambridgeport and East Cambridge directly to the great freight stations of Charlestown.

In view of all these facts we hope that sufficient appropriation will be made to enable us to finish the embankment this year.

Thirty-four trees have been planted here this year, and 688.56 cubic yards of loam were used, at a cost of $681.91.

CAMBRIDGE COMMON

The usual number of men have been employed here during the season, caring for the trees, cutting the grass and keeping the walks shaped up. The ball grounds were treated in the early spring and were very well patronized by lovers of base-ball during the entire season. Goal posts were set in the fall and the field was used for football practice.

The fence around the Common has been repaired.

The fence around the monument was painted.

New axles were placed in the gun carriages and the cannon painted.

The coming season the walks should be resurfaced as they are subject to constant wear.

More settees are needed to accommodate the demand, as under present conditions the greatest good to the greatest number is not secured. A very small minority only of all the population who need this recreation space are permitted to enjoy it.

That a high state of cultivation of grass, trees and shrubs should be maintained in at least a part of the Common is very evident.

The grounds surrounding the Soldiers' Monument are not in keeping with the monument and I trust that next year we will be able to put them in better condition. The artistic treatment of the immediate grounds should be in harmony with the formal design of this monument. The

lawns of the private estates that surround the Common are of a character which call for equally careful cultivation of this reservation.

In bringing about this none of the old traditions of this sacred field need be violated. The treatment of the Common so as to preserve and emphasize its historical importance would be one of the tasks of the architect and one for which the advisory architects of this department are especially qualified. Native shrubs and trees arranged naturally should be used in the planting and if the flora of Massachusetts were used exclusively the effect would not be without much beauty and variety. The plan would have a unit of novelty and its educational advantages in affording a field for botanical study to our many school children who now have little opportunity to learn of the wealth of the woods and fields would be of much value.

Considerable work is now done each year in the way of repairs, much of this would be unnecessary if clearly defined plans for the treatment of the Common were adopted. Some trees should be removed and young trees planted in their places. Even if the work of reconstructing was not seriously entered upon for several years this incidental work of each season should be done with reference to a final plan.

BROADWAY COMMON.

The usual care has been given to the walks, shrubbery beds, lawns and trees. Some settlements are noticeable and require building up with loam.

Additional shrubbery is needed.

The gravel walks should be bricked to conform with the others as numerous complaints have been made of their muddy condition in the wet season.

The iron fence enclosing the Common is in good condition, having been repaired and painted.

The shrubbery and trees have made good headway during the past year.

The flagstaff shows need of repairs and paint.

I would again call attention to the urgent demands for a simple outdoor gymnasium and sand courts, both of which are needed in this vicinity on account of the number of schools in close proximity and hope that something of the kind may be installed the coming spring.

It would be well to set off a section of the Common as a playground for children of the neighborhood and thus save the shrubbery from being trampled upon.

If this plan is carried out this place will be a very useful as well as an attractive piece of public property.

FORT WASHINGTON.

The usual care has been taken of the old fort.

The shrubbery is doing very well and the lawns and walks are in good condition.

The guns and iron fence have been painted.

The flagstaff should be repainted.

WASHINGTON ELM.

The usual care has been taken of this grand old tree this year. At present it is in a very good condition considering its age, and with proper care and good nourishment this interesting elm may continue to bear foliage for many years.

The leaves indicate considerable life on account of the fresh supply of plant food that has been added the past season.

A limb was removed this year and pieces of this were distributed to all who applied at the office.

The wounds also have been tarred and screened as suggested by Professor Sargent of the Harvard Arboretum.

An iron fence has been placed around the tree as a protection from souvenir hunters.

Some bulbs were placed in the loam space in front of the tree this fall which it is hoped will add to the beauty of the surroundings another season.

WINTHROP SQUARE.

During the season the usual care has been given to the trees, shrubbery, grass plots and walks.

The fence is in fair condition.

Considerable loam is necessary in the early spring for surfacing the turf-covered spaces and building up the shrubbery beds.

The beds need more shrubbery.

The walks require shaping up, and resurfacing with stone dust.

Two of the largest elms were partially destroyed during the heavy storms of the winter but have been treated since and are now in fair condition.

HASTINGS SQUARE.

The usual attention has been given to the care of the trees, shrubbery, grass plots and walks.

Considerable loam is necessary for building up beds and shaping up the turf-covered spaces.

The walks should be resurfaced.

Again I would call attention to the numerous requests made for lights and settees.

DANA SQUARE.

The usual attention has been given to the trees and shrubbery.

New shrubbery was added and the turf covered spaces were turned over and seeded.

The walks were shaped up and the fence surrounding the square repaired and painted.

PUBLIC SQUARES.

Again I am obliged to call attention to the poor condition of the public squares of the City.

That they are sadly neglected every observing citizen knows and these should receive more thought and consideration in helping to build up and beautify our park system.

Kendall Square, which is within the approach to our new Cambridge Bridge should receive immediate attention, as the bridge will be open for travel in the early summer. This Square could be made attractive by enclosing a part of the triangle with durable coping, filling in the same with loam and sod. This would not encroach on the width of the roadway and would be a great improvement over the present appearance.

I would also suggest that the following named Squares be treated in a like manner: Kelley, Lechmere, Mechanic and Porter.

SCHOOLHOUSE GROUNDS.

Very little work has been done to improve the condition of the schoolhouse grounds during the past year, owing to the lack of appropriation for this work.

The grounds around the Manual Training, High and Latin Schools and Public Library have received the usual care and attention, such as cutting the grass, caring for shrubbery and trees. There are several settlements noticeable on the Cambridge Street side of the Library which should be built up in the early spring.

During the winter a hockey rink was built in the space between the High and Latin Schools and was very much enjoyed by the hockey teams of the two schools.

In the spring a fifteen-lap running track and tennis court were built on the grounds of the Manual Training School, which were much appreciated by the scholars. In connection with this, twelve cubic yards of loam were used at a cost of $9.60.

During the spring the shrubbery beds were thoroughly overhauled,

loam was added and the dead wood removed, thus making the grounds more attractive than before.

The walks were shaped up and rolled and are in good condition.

There are few schoolhouse lots in our City so contracted that it would not be possible to establish in them school gardens. In these gardens a few carefully labeled shrubs and a tree or two would not only exert a softening and civilized influence upon the school children, but might be made to play an important part in the educational system of our City.

The youngest schoolboy is old enough to find the study of school gardening the most absorbing of all his occupations. Here an early love of nature may be implanted, which will make lasting impression upon his future life as a citizen.

The problem of park development seems to include not only the preparation of parks for the people, but also in some measure at least the preparation of the people for the parks.

Below will be found a list of the school yards, showing briefly their condition and the probable cost of needed improvement: —

School.	Location.	Yard area in sq. feet.	Condition of Yard.	Needed Improvement.	Probable Cost.
Agassig	Sacramento St.	15,337	Poor	Graded, iron fence	$1,000
Boardman	Windsor St.	5,528	Fair	No change	
Corlett	Holworthy St	8,800	Fair	No change	
Cushing	Cushing St.	12,897	Fair	Repair fence	100
Ellis	Norris St.		Poor	Lawn, planting	300
Felton	Amory St.	11,760	Good	Planting, iron fence	200
Fletcher	Elm St.		Excellent	No change	
Gannett	Jefferson St.	12,209	Good	Repair fence	25
Gore	Gore St.	5,364	Fair	Repair brick yard	25
Harvard	Inman St.	12,030	Fair	No change	
High	Broadway	68,094	Excellent	No change	
Holmes	Hilliard St.	8,894	Fair	Graded	200
Houghton	Putnam Ave.		Excellent	No change	
Kelley	Willow St.		Excellent	No change	
Lassell	Charles St.	6,992	Poor	Graded	100
Latin	Trowbridge St.		Excellent	No change	
Lowell	Lowell St.	9,108	Fair	Grade front	50
Merrill	Fayette St.	32,188	Poor	Graded, planting, fence	200
Morse	Allston St	15,420	Excellent	No change	
Otis	Otis St	5,190	Poor	Graded, planting, remove fence.	200
Parker	Broadway	8,024	Very poor	Graded, planting	400
Peabody	Linnaean St.	17,663	Excellent	No change	
Putnam	Fourth St.	10,575	Poor	Graded, iron fence	400
Reed	Reed St.	9,915	Very poor	Graded, planting	100
Riverside	Putnam Ave.	7,803	Poor	Graded	200
R. M. T. S.	Irving St.		Fair	Pave roadway	
Russell	Larch St.	25,728	Fair	Graded, retaining wall	400
Shepard	Mass Ave.	9,640	Fair	Lawn, walks, planting	300
Sleeper	Dudley St.	15,412	Excellent	No change	
Tarbell	Grigg St.	16,705	Very poor	Graded	600
Taylor	Charles St.	17,058	Excellent	No change	
Thorndike	Thorndike St.	2,637	Fair	Planting	50
Washington	Cambridge St.		Good	Graded	100
Webster	Upton St.	21,339	Good	No change	
Willard	Niagara St.	15,543	Fair	Graded, planting, iron fence	500
Wyman	Rindge Ave.	12,001		No change, school to be abandoned	
Wellington	Columbia St.	26,011	Good	Iron fence	200
				Total	$5,650

SHADE TREES.

During the year 144.5 cubic yards of loam have been received at a cost of $115.16, and 82 cubic yards at a cost of $73.80. This has been used in the planting of new trees.

Work upon the public shade trees has proceeded slowly throughout the year, because of the inadequate means at the disposal of the Department. In my report of last year the caring of the trees was discussed and many necessary features pointed out.

Our citizens rejoice in the large amount of foliage which screens the City from the sun and makes the streets look beautiful, but a critical examination reveals the fact that the City is going backward in the matter of tree culture, and if the tendency which has been growing for a number of years of neglecting the trees continues, in a short time Cambridge, noted for being a City of beautiful trees, may be included in the list of "nearly barren cities." It is true that we have planted more trees than have been removed, but this fact is not the whole story. The work of destruction from many causes is going on, and decay is no less sure because silent and slow.

In order to have healthy trees extra care must be taken of them. When they show a lack of vigor the cause should be ascertained and if possible remedied.

There still remains a number of trees that require the removing of dead limbs; also a number of dead ones that should be removed this year. Close attention should be given to the care of some of our largest and best shade trees and considerable trimming is necessary the coming season.

A great many of the young trees are exceedingly backward in growth, owing to insufficient nourishment, and I would recommend a mixture of fresh loam, stable manure and street scrapings as a fertilizer to improve the growth of the same. It would be well to have a space cut out, where possible, around each tree large enough to catch surface water, instead of allowing the water to run into the gutter, which is a great drawback to the life and vigor of trees within the City proper.

The following tables show the amount of work done this year:—

529 trees planted, as follows:—

Acer platanoides .	106
Acer saccharum .	58
Quercus rubra . .	213
Ulmus Americana .	152

134 trees removed, as follows:—

Acer platanoides . .	2
Acer saccharum . .	26
Aesculus hippocastanum .	17
Fraxinus Americana .	1
Platanus occidentalis .	13
Populus candicans . .	3
Salix	7
Tilia Americana . .	3
Ulmus Americana . .	58
Ulmus campestris . .	4

262 trees trimmed.
356 new wire guards.
211 wire guards repaired.
26 heads removed.

NUMBER AND KIND OF TREES PLANTED.

Street.	Acer platanoides.	Acer saccharum.	Quercus rubra.	Ulmus Americana.
Appleton		1		
Avon Hill	2			
Brattle	2			
Broadway	1			
Cambridge		2		
Cedar				2
Charles				31
East Cambridge Embankment			42	
Eighth	2			
Eustis				30
Fayerweather	31			
Fayette				8
Fifth				4
Fourth				1
Frank	5			
Franklin	1			
Greenough Avenue				1
Harding			28	
Harvard	2			
Henry	1			
Highland Avenue				21
Hunting			13	
Huron Avenue	1			21
Jefferson			15	
Leonard Avenue		24		
Lexington Avenue	3			
Marion			14	
Ninth	1			
Norfolk				1
Oak Circle			21	
Oxford				2
Park Avenue				3
Pearl	30			
Pleasant				1
Porter			27	
Reservoir		6		
Rockingham	2			
Sacramento				19
Saville			3	
Sections A and B		24		
Section F			29	
Sixth	1			2
Third	4			
Walden				1
Warland	12			
Warren			21	
Winsor				2
Wyman	3			
Yorktown	2	1		
	106	58	213	152

TREE PESTS.

A great amount of work has been accomplished this year in exterminating the brown-tail and gypsy moths. Eleven thousand three hundred and forty-nine trees have been cleaned since December 1, 1904, and 326 bushels of nests removed. Each bushel contains about 1,560 nests and each nest 400 moths, so it is safe to say that at least 203,424,000 moths have been destroyed.

During the winter months a large number of men were constantly employed removing the nests of the brown-tail moth from the branches of the trees and treating the nests of the gypsy moth with creosote. Not only was this work done on the street trees, but also on private property.

As in former years, a charge of 25 cents per hour for each man employed was made for work on private property and bills to the amount of $2,754.94 were sent out, and of this amount $1,336.65 was paid.

During the summer months a small force of men were employed spraying the trees in the more infested district. As soon as the foliage left the trees this fall a large force of men was started upon a systematic cleaning of first the street trees and then the private property through the entire city. This force will be kept at work until all the trees are thoroughly cleaned.

The charge for this work the coming year will be placed on the tax bill instead of a separate bill as heretofore.

THE GYPSY AND BROWN-TAIL MOTHS.

The Gypsy Moth.

As far back as authentic records exist, the gypsy moth has been a destructive insect pest in Europe; at times increasing enormously and disastrously, then for other periods decreasing, only to increase again and renew its extensive ravages. At the present time it is most numerous and destructive in southern Russia.

Up to the year 1868 the gypsy moth was not known to exist anywhere within the western hemisphere. In that year the insect was brought from Europe by an experimenter to Medford, Mass. Soon escaping, it spread into many cities and towns of eastern Massachusetts, and, increasing enormously, became in 1890 so serious a pest that the Commonwealth began exterminative work against it. This was continued for ten years. By 1900 the State work had so reduced the moth that it was doing little or no serious damage, and had, indeed, ceased to be generally noticed, having been exterminated in many places. The

Commonwealth then abandoned its operations against the insect; whereupon it rapidly gained headway, and soon became again a formidable menace. Today, in many localities, the gypsy moth occurs in enormous numbers, as it did in 1890, but it is found over a much larger territory than it occupied at that time.

The Damage Caused by the Gypsy Moth.

The gypsy moth caterpillar will attack all fruit, shade and woodland trees. It shows a preference for the apple, white oak, red oak, willow and elm. It will devour on occasion nearly every useful grass, plant, flower, shrub, vine, bush, garden or field crop that grows in Massachusetts.

The caterpillar kills both deciduous and coniferous trees. Woodlands assailed by it in formidable numbers are striped bare, as in winter, and many trees are killed. While several consecutive strippings are usually necessary to cause the death of a healthy deciduous tree, one thorough stripping will kill the white pine and other coniferous trees. Where the gypsy moth abounds in residential districts, it not only eats nearly everything green, but it swarms, in caterpillar form, upon houses, walks and verandas and often enters dwellings. In residential districts most heavily infested by the moth, real estate tends to rapid depreciation, so that it sometimes becomes a matter of difficulty to rent or sell property.

Life History.

The gypsy moth, like all insects of its class, exists under four different forms during the year.

The Egg. — The eggs of the gypsy moth are laid in July and August in a yellowish, hair-covered mass, averaging about one and one-half inches long and about three-fourths of an inch wide. To the eye the egg mass resembles a small, tightly stuffed, oval, buff-colored cushion. During winter the color often fades to a dingy white. In this mass, the eggs, to the average number of about five hundred, are closely packed with yellowish hair from the body of the female moth. An individual egg is scarcely as large as a pinhead, salmon-colored when first laid, but turning dark in the course of a few weeks.

The Caterpillar or Larva. — The eggs hatch about May 1, and each mass or "cluster" yields a swarm of small caterpillars, the bulk of which become fully grown by midsummer. Gypsy moth caterpillars of any age are decidedly hairy. The head of the caterpillar is large in proportion to its body, this being especially noticeable when it is young.

The mature caterpillar has a dusky or sooty-colored body. Along the back, counting from the head, which is marked with yellow, is a

double row of blue spots followed by a double row of red spots. This double row of spots almost invariably may be seen very distinctly on the back of a gypsy moth caterpillar which has attained a length of one inch and a half or more. There are five pairs of blue spots and six pairs of red spots. No other New England larva has this double row of blue and red spots along its back. Until the gypsy moth caterpillar grows to the length of an inch and a half, however, it does not always show very distinctly these pairs of spots. The mature gypsy moth caterpillar not infrequently attains a length of three inches.

The Pupa. — When fully grown, usually in July, the caterpillar spins a few threads of silk as a supporting framework, casts its skin and changes into a pupa, or, as it is sometimes called, a chrysalis. The pupa is dark reddish or chocolate in color and very thinly sprinkled with light reddish hairs. Unfortunately it resembles the pupæ of certain other moths found in Massachusetts, and cannot, unless by experts, be identified at a glance. The thinly sprinkled, light reddish hairs are, however, characteristic.

The Moth. — From July 15 to August 15 the winged moths emerge from the pupæ, the date varying according to the season and time of pupation. The male moth is brownish-yellow, varying to greenish-brown in color, has a slender body and expands about one and one-half inches. It flies actively by day, with a peculiar zigzag flight.

The female moth is nearly white, with numerous small black markings, heavy bodied and sluggish, and expands about two inches. The female does not fly, otherwise the spread of the gypsy moth would be most rapid. After mating, the moths live but a short time. The female dies after despositing her egg mass. The winged moths take no food. All damage to foliage is caused by the caterpillars.

Distribution.

The gypsy moth spreads chiefly during the caterpillar stage. While the caterpillars do not crawl very far from where they hatch, except when there is a scarcity of food, they have the habit, when small and young, of spinning down on their silken threads from trees, and, falling on vehicles, are then carried from place to place. Electric cars, pleasure and business vehicles, bicycles and automobiles are common means of thus transporting the gypsy moth. The special attention of all those upon whom gypsy moth suppression devolves is therefore directed to the necessity of keeping the neighborhoods of travelled highways free from the insect. The caterpillars often crawl upon vehicles standing in an infested spot, and by this means also are carried from one place to another. The

egg clusters of the gypsy moth may also be transported upon any of the numerous objects on which they are laid. Freight cars that have stood near infested foliage for a period long enough for the laying of gypsy moth eggs upon them may even thus transport the pest.

While the foregoing list is accurate at this writing (September 1, 1905), there can be but little doubt that the gypsy moth occurs over a considerably larger area. From a knowledge of the existence of large colonies of the moth on main lines of travel in eastern Massachusetts, as well as of the means by which the moth spreads, it seems probable that the insect will ultimately be found at least throughout the eastern part of the State.

Where to look for the Gypsy Moth.

The Egg.— From August to May the egg masses of the gypsy moth may be found in places near which the moth emerged from the pupa case. In laying, the female moth chooses tree trunks, the under sides of limbs, sheltered crotches and holes in trees, hollow trees, crevices in or under rough bark, etc. The egg clusters are also found on shrubbery, buildings, scattered and heaped rubbish, barrels, boxes and similar objects standing out of doors, wood piles, stone piles, fences, walls, boulders and the like. Gypsy moth egg clusters have been found upon an immense variety of objects, and occasionally may be seen in almost any situation that is not too far from vegetation. The tendency is to deposit the eggs on the lower or inner surface of an object. The moths disregard all rules when they swarm in a place, and their egg clusters may then be found plentifully in sight as well as out, and in all sorts of places, even within buildings.

The Caterpillar.— From May to August the caterpillars may be found in various stages of growth, diminishing in numbers rapidly after July 15. In the spring the small caterpillars should be looked for on the foliage, feeding principally on the under side of the leaf. As the caterpillars grow, they molt or cast their skin several times, and these molted skins are characteristic signs of the presence of the moth. As the caterpillars acquire size, they commence to feed by night, and during the day seek shelter, generally in clusters, on the shady side of tree trunks, beneath large limbs, under rough or loose bark, in holes in trees, under fence rails, in walls, stone heaps, rubbish piles, in short in any accessible place offering shelter from the sun and the birds.

The Pupa.— Gypsy moth pupæ are most abundant during the latter half of July. They are to be found in the same situations as are chosen for depositing the egg clusters, and not infrequently, also, in the foliage of trees and shrubs.

The Moth.— The peculiar zigzag flight of the male moth has already been noted. The large, white, conspicuous female moths sit or crawl on tree trunks, etc., near their pupa cases. In July (chiefly the latter half) and through August these females may be found busily engaged in laying their eggs.

Danger Signs.— The bristly, cast-off molt skins of the gypsy moth caterpillars, often with the head cases attached, may frequently be found in the situations chosen for the eggs and pupæ. They are often massed in bunches, and are very commonly associated with empty gypsy moth pupa cases or hatched or unhatched gypsy moth egg clusters.

Gypsy moth molt skins and empty pupa cases are resistant to weather and decay, and may be found at any season of the year. The presence in any locality of such molt skin, empty pupa case or hatched egg cluster of the gypsy moth indicates the probable presence near by of the living moth in some form, and therefore is a sign of danger not to be disregarded. The hatched-out egg masses of a previous year often remain intact in sheltered places, and thus give a clue to the presence of the insect.

The Brown-tail Moth.

This insect, like the gypsy moth, a common European pest of fruit and shade trees, has been an object of interest to gardeners from the earliest times. Throughout Europe it is known as the "common caterpillar," and accounts of its habits and periodical ravages are to be found in nearly all European works on entomology and horticulture. It found its way accidentally to Somerville, Mass., in the early nineties, probably in a shipment of roses from Holland, multiplied, spread, and is now generally disseminated over eastern New England.

Damage by the Brown-tail Moth.

While at first a pest of the pear and other fruit trees, the brown tail moth has now adapted itself to feeding on various species of forest trees, notably the oaks. In the spring, as soon as the buds unfold, the young caterpillars begin to feed, and where numerous completely strip even large trees. When the food supply gives out, they swarm forth along fences, walks, etc., in search of foliage.

The damage by the caterpillars to the fruit trees is only a part of the harm wrought by them. Whenever these insects come in contact with human flesh, they produce a most severe and painful nettling. This is due apparently not to any poisonous material in the hairs, but rather to the finely barbed and brittle hairs themselves. So severe is this affec-

tion that in many cases people have been made seriously ill by it. The best remedy for it is the liberal use of cooling lotions, or what is more satisfactory, even if less pleasant, the free use of common vaseline.

Where the brown-tail moth caterpillar exists in great numbers it at times gathers upon houses and even enters them, causing extreme annoyance. Like the gypsy moth, the brown-tail moth, where it abounds, depreciates the value of residential property.

Life History.

The Egg. — The egg mass of the brown-tail moth somewhat resembles that of the gypsy moth, but it is laid on the under side of a leaf—seldom on a tree trunk—and is smaller and more elongated and of a brighter reddish-brown color. From July 15 to the end of the month, the white moths lay their eggs in brown, hair-covered masses on the leaves near the top of pear and other trees. Each egg cluster contains about three hundred eggs, closely packed in a mass about two-thirds of an inch long by one-fourth of an inch wide.

The Caterpillar. — The eggs hatch during August, and the young caterpillars begin to feed in clusters on the upper surface of the leaves. They soon commence the work of spinning their winter webs. In making the web a number of leaves in the vicinity of the egg clusters are drawn together and carefully spun in with a tenacious silken web. The web is grayish in color, composed of dead leaves and silk, and is very hard to tear apart. Each web contains about two hundred and fifty caterpillars, and varies in length from four to six inches. With the approach of cold weather the caterpillars enter the web and close the exit holes. We then have the strange phenomenon of a caterpillar wintering over when only one-quarter grown, and emerging the following spring to complete its life history. The extremes of cold in Massachusetts do not seem to effect these insects adversely. They emerge in the spring, usually in early April, eat first the buds and then the blossoms, and attack the foliage of fruit trees as soon as it develops. The full-grown caterpillar is about two inches in length, with a broken white stripe on either side and two conspicuous red dots on the back near the posterior end.

Stripping the foliage of one tree, they go to others, and continue to eat until full grown, when the cocoons are spun within the leaves at the ends of the branches or sometimes on the tree trunks.

The Pupa. — The caterpillars pupate within their cocoons at the tips of twigs. Usually the mass of cocoons is formed within a spray of leaves, but at times the cocoon is made on a house wall, fence, tree trunk, etc. The pupa is a compact, dark-brown body, about five-eighths of an

inch long, with yellowish-brown hairs scattered over its surface. Pupation takes place the later part of June, and the moths emerge about the middle of July.

The Moth. — The moths are pure white on the wings. The male is slender bodied, while the female has a conspicuous bunch of brown hair at the tip of the abdomen, hence the name "brown-tail moth." The female has a wing expanse of about one and one-half inches, the male being slightly smaller.

Both the male and female brown-tail moths fly mainly by night, and are greatly attracted to lights. As in the case of the gypsy moth, all the destructive work of the brown-tail moth is done by its caterpillar, which, unlike the gypsy moth caterpillar, habitually feeds by day.

Distribution.

The brown-tail moth is known to have spread at least as far to the northeast as Eastport, Me., and as far south as Cape Cod, Mass. To the west it has been found at Amherst, Mass. The eastern portion of Massachusetts from north to south is now quite solidly infested, though less so south of Boston, and the moth doubtless exists in many communities in and out of Massachusetts from which it has not yet been reported.

The female winged brown-tail moth, like the male, is a strong, swift flyer and can carry her eggs long distances before depositing them. For this reason the brown-tail moth has spread much farther from its point of introduction in Massachusetts than has the gypsy moth. In its flight the brown-tail moth is often aided by strong winds. It is also transported on steamboats and in electric and steam cars to which it is attracted at night by the lights.

The caterpillar of the brown-tail moth has, when young, the "spinning down" habit already described in the case of the gypsy moth caterpillar, and is similarly transported by vehicles and pedestrians. The neighborhoods of travelled highways, therefore, should be kept free from the brown-tail as well as from the gypsy moth.

The Species Contrasted.

The gypsy moth and the brown-tail moth are constantly confused in the minds of many people. The following marked differences between the two should be noted: —

a. The egg cluster of the gypsy moth is rarely found on the under side of a leaf, and is commonly a rather robust-looking object, often two inches long and relatively thick and broad.

The egg cluster of the brown-tail moth is almost always deposited on the under side of a leaf, and is smaller and more slender than a typical gypsy moth egg cluster.

b. The gypsy moth caterpillar, when well grown, has a dark grayish or sooty-colored body, marked conspicuously along the back, counting from the head, with a double row of blue spots followed by a double row of red spots.

The brown-tail moth caterpillar, when well grown, is of a bright tawny or orange-brown color, marked along each side of the body by a conspicuous row of pure white spots, and having two bright red spots at the lower end of the back.

c. The female gypsy moth has a wing spread of about two and one-quarter inches, and her general color is a dingy white lightly streaked and blotched with blackish and faint grayish. Her abdomen has no thick, conspicuous patch of golden or brownish hairs at the tip. Though she has large wings (which she often flutters), she does not fly, but merely crawls short distances.

The female winged brown-tail moth is much smaller than the female gypsy moth, with much less spread of wing. Her color is a remarkably pure, unsullied, snow white. At the tip of her abdomen is a very conspicuous unmistakable, sharply contrasted, thick, rounded patch of golden or brownish hairs.

The female brown-tail moth is a swift, strong flyer, mainly flying by night, and is greatly attracted to lights.

d. The gypsy moth caterpillar never weaves a nest or web in which to hibernate during cold weather. The gypsy moth winters in the egg form, never as a caterpillar.

The caterpillar of the brown-tail moth always weaves a hibernating nest or web in which to rest torpid during the winter. Throughout cold weather the brown-tail moth is in caterpillar form, dormant and snugly ensconced inside its nest, which is placed at or near the tip of a twig. With the warm weather of spring the brown-tail moth caterpillar does not "hatch", but simply awakens to animation, crawls out of the nest and begins to feed.

e. The gypsy moth does not, in any of its forms, produce noteworthy irritation of the human skin.

The brown-tail moth caterpillars and cocoons, by reason of their hairs, cause a most annoying and painful irritation. The female brown-tail moths, in their struggles to emerge from the cocoons, often acquire a certain number of caterpillar hairs, and hence are sometimes, though rarely, the cause of the irritation above mentioned.

Remedies against the Moths.

The Gypsy Moth.

Egg killing. — No single method of destruction against the gypsy moth is more effective than killing the eggs. The egg masses wherever accessible can be killed from August to May by soaking them thoroughly with creosote mixture. The creosote may be applied with a small swab or paint brush. In killing gypsy moth eggs in high trees, it is usually best to work with two men; one man to point out the egg clusters from the ground, another to kill the eggs in the trees. Creosote mixture may be purchased at agricultural warehouses and seed stores at from fifty cents to one dollar per gallon, depending on quantity.

Where trees and shrubbery (especially low-cost woodland and unimproved tracts of brush) are extensively infested with the eggs of the gypsy moth, the growth should be cut and burned. The eggs are, however, remarkably resistant to fire, and an intense heat applied directly to the clusters is required to kill them all. Where the clusters are very plentiful, burning the ground over with oil to destroy eggs scattered as a result of the cutting of trees and bushes will be required to insure thorough work.

Caterpillar Destruction. — Spraying infested foliage with arsenate of lead at the rate of ten pounds to one hundred gallons of water is very effective when the caterpillars are small. Any of the common hand outfits will suffice for the spraying of shrubs or flowering plants. For use on trees, a pump mounted on a barrel or hogshead is desirable. The poison should be thoroughly mixed in water, and applied, if possible, on a clear, dry day, in such a manner as to cover the leaves, rather slowly, with a fine mist. The foliage should never be drenched with a stream. When the leaves begin to drip, spraying should at once cease. Spraying should begin at the top of the trees. This work is most effective when done during early May and early June. Where tall street trees or trees in easily accessible woodland are to be sprayed, the use of a power outfit is to be recommended. Steam or gasoline engine sprayers are not so economical of the spray as hand pumps, but make a great saving in the cost of labor. Furthermore, with a properly equipped power outfit the work can be done with the greatest possible rapidity. Where arsenate of lead cannot be obtained, Paris green, one pound to one hundred and fifty gallons of water, may be used, but it should be borne in mind that this insecticide often scorches the foliage, and that it washes off with the first rain. Arsenate of lead is not open to these objections.

Burning over infested wood or brush land in May or June is a very

effective method of destroying gypsy moth caterpillars, and is the logical complement to the method of egg killing by burning previously described. The trees and bushes should be cut before the hatching time of the eggs, and may be left lying as they fall. A few trees should be left standing, and to these such caterpillars as escape the burning will resort for food, and they may then be killed by spraying or by burlapping, as described farther on. The burning of the fallen trees and brush should be done when the caterpillars are very young and small. At this time they quickly succumb to flame. When the caterpillars are older, burning is less effective.

If a strip of burlap or other coarse, cheap cloth is tied about an infested tree trunk by the middle, in such manner that the flaps hang down, the caterpillars, as soon as they have acquired the night-feeding habit, will gather under the cloth and can then be destroyed by crushing or by cutting with a sheath knife. The burlaps should be examined daily, or, when the caterpillars are in great numbers in a locality, several times a day. Burlap can be successfully employed from the latter half of May to the first or middle of August, for the caterpillars commonly pupate under burlap and winged moths lay many eggs under it. It should be borne in mind that the cloth band is in no sense a tree protector; nor is it a trap. Its function is simply to give the shelter which the caterpillars seek by day. Serving as it does as a hiding place for various insects, it is better off the tree than on unless it can be attended to and kept clean. At the end of the caterpillar season, all burlaps should be removed and burned. To insure best results on high trees, such as street elms, burlaps should be placed around some of the larger limbs, as well as around the trunk, as many caterpillars will seek shelter up in the tree rather than descend to the ground. The most effective results in using the burlap are obtained where cavities, crevices, etc., in the trees have been first filled with cement or covered with zinc and all loose bark removed. If these hiding places are destroyed, nearly all the caterpillars will seek the burlap at some time during the season.

Banding a non-infested tree with insect lime or other sticky substance or mixture to keep the caterpillars out of it is an affective means of protection, provided the branches of the tree do not interlock with those of an infested tree, and provided the two do not stand so near that the small caterpillars can pass from the infested tree to the other by means of their fine threads. A band of whatever material composed, to be effective must remain sticky. When caterpillars are numerous in a place, they often, in their attempts to cross the band, bridge it over with their threads and dead bodies, with the result that other caterpillars coming later are able to ascend the tree. For this reason and in order

that the caterpillars which collect beneath may be killed, the sticky band should be frequently inspected. If the many caterpillars which frequently "herd" below the sticky bands are not killed, they will in time leave the trees for shrubbery, where they are less easily destroyed, there to complete their feeding period and transform into moths. Insect lime, raupenleim, tanglefoot, bodlime, printer's ink or even axle grease are among the materials most used for banding. All may be dangerous to the tree and should be removed after the caterpillar season has passed.

Destroying Pupæ and Moths.— Pupæ are commonly found under the burlap and in other places frequented by the caterpillars. They are often massed under large branches or in other sheltered places. In similar locations the female moths may be found in numbers. Both forms of the insect may be crushed by hand to advantage during July and August.

The Brown-tail Moth.

The Eggs.— The gathering of leaves which bear egg masses is only feasible in the case of shrubs and young trees where the foliage may be reached from the ground. Rose bushes, dwarf fruit trees and ornamental shrubs often may be cleared from the moth in this way.

The Caterpillar. — The winter webs or nests containing the hibernating caterpillars are conspicuous objects at the tips of twigs from October to April. These webs should be sought out and removed by the use of pole shears or long-handled pruners, and then carefully collected and burned. It is more satisfactory, where possible, to burn the webs in a furnace or stove, since, where an open bonfire is used, extra care must be taken to see that none of the webs escape with a mere scorching. When a light snow is on the ground, the work of web destruction and gathering can be carried on to best advantage, although it is desirable that the work should be done as early as possible in the season after the leaves fall. Where tall trees are infested, two men, one to point out the nests from the ground, the other in the tree to cut of the nests, can work more rapidly and economically than one man. It should be borne in mind that webs cut off and thrown on a dump heap as well as those that are beaten off by storms will yield their quota of caterpillars the following spring.

Of all means of combating the brown-tail moth, web destruction as above outlined is the remedy *par excellence.*

Spraying is very effective against brown-tail moth caterpillars, since they are much less resistant to the action of poison than are those of the gypsy moth. To secure best results, spraying should be done as soon as the foliage develops in the spring. Five to eight pounds of the arsenate

of lead paste to one hundred gallons of water is sufficient for the spray, or, if preferred, one pound of good Paris green kept well stirred in one hundred and fifty gallons of water may be applied. The directions given for spraying gypsy moth caterpillars should be followed in the case of those of the brown-tail moth. Spraying may be done not only in the spring, but also in August when the caterpillars hatch from the egg, except in cases of trees in fruit.

Spraying or sprinkling with kerosene emulsion or strong soap suds is often useful in destroying the swarming caterpillars on fences, walks, etc.

Such trees as are free from brown-tail moths may be protected from the caterpillars which crawl from neighboring estates by applying a sticky band. The banding will not prevent the infestation of the trees by the female winged moths, which, flying in July, will alight on the foliage of such trees and deposit their egg clusters thereon. It is therefore clear that sticky banding, when used against brown-tail caterpillars, has a more strictly limited usefulness than in the case of the gypsy moth.

The Pupæ. —When the caterpillars have changed to pupæ enclosed by their cocoons, these may be gathered, although the work is likely to be attended by severe inflammation of the skin from contact with the nettling hairs. Cocoons thus gathered should be placed in a barrel covered with mosquito netting, so that any parasites may escape while the moths are confined. Brown-tail moth pupæ are most numerous during the latter half of June.

The Moths. — As has already been mentioned, the moths assemble in great numbers around electric and other lights. It often occurs that a lamp pole on a morning during the flying season is covered by hundreds if not thousands of the winged moths. In such cases the free use of the hose will wash down and kill the insects. No effective form of lamp trap has yet been devised, and, in fact, it is not at all clear that the brown-tail moth can be combated economically in the winged stage.

LAW RELATING TO GYPSY AND BROWN-TAIL MOTHS.

[Chap. 381.]

An Act to provide for suppressing the gypsy and brown-tail moths.

Be it enacted, etc., as follows:

Section 1. For the purposes of this act the pupæ, nests, eggs and caterpillars of the gypsy and brown-tail moths and said moths are hereby declared public nuisances, and their suppression is authorized and required; but no owner or occupant of an estate infested by such nuisance shall by reason thereof be liable to an action, civil or criminal, except to the extent and in the manner and form herein set forth.

Section 2. The governor, by and with the consent of the council, shall appoint a superintendent for suppressing the gypsy and brown-tail moths and shall determine his salary. The governor may, with the consent of the council, remove said superintendent at any time for such cause as he shall deem sufficient. In case of the death, removal or resignation of the superintendent the governor shall forthwith appoint a successor. On or before the third Wednesday in January in each year the superintendent shall make a report of his proceedings to the general court, which shall be a public document and shall be printed. Said report shall separate so far as is practicable the expenditures on work against the gypsy moth from those on work against the brown tail moth in each city and town.

Section 3. The said superintendent shall act for the Commonwealth in suppressing said moths as public nuisances, in accordance with the provisions of this act. For this purpose he shall establish an office and keep a record of his doings and of his receipts and expenditures, and may make rules and regulations. He may employ such clerks, assistants and agents, including expert advisers and inspectors, as he may deem necessary and as shall be approved by the governor. He may make contracts on behalf of the Commonwealth; may act in co-operation with any person, persons, corporation or corporations, including other states, the United States or foreign governments; may conduct investigations and accumulate and distribute information concerning said moths; may devise, use and require all other lawful means of suppressing or preventing said moths; may lease real estate when he deems it necessary, and, with the approval of the board in charge, may use any real or personal property of the Commonwealth; may at all times enter upon the land of the Commonwealth or of a municipality, corporation, or other owner or owners, and may use all reasonable means in carrying out the purposes of this act; and, in the undertakings aforesaid, may, in accordance with the provisions of this act, expend the funds appropriated or donated therefor; but no expenditure shall be made or liability incurred in excess of such appropriations and donations.

Section 4. Cities and towns by such public officer or board as they shall designate or appoint, shall, under the advice and general direction of said superintendent, destroy the eggs, pupæ and nests of the gypsy and brown-tail moths within their limits, except in parks and other property under the control of the Commonwealth, and except in private property, save as otherwise provided herein. When any city or town shall have expended within its limits city or town funds to an amount in excess of five thousand dollars in any one calendar year, in suppressing gypsy or brown-tail moths, the Commonwealth shall reimburse such city or town to the extent of fifty per cent. of such excess above said five thousand dollars.

Cities or towns, where one twenty-fifth of one per cent. of the assessed valuation of real and personal property is less than five thousand dollars, and where the assessed valuation of real and personal property is greater than six million dollars, shall be reimbursed by the Commonwealth to the extent of eighty per cent. of the amount expended by such cities or towns of city or town funds in suppressing the gypsy and brown-tail moths in any one calendar year, in excess of said one twenty-fifth of one per cent.

In the case of towns where the assessed valuation of real and personal property is less than six million dollars, after they have expended in any one calendar year town funds to an amount equal to one twenty-fifth of one per cent. of their assessed valuation of real and personal property, the Commonwealth shall expend within the

limits of such towns, for the purpose of suppressing the gypsy and brown-tail moths, such an amount in addition as the superintendent with the advice and consent of the governor shall recommend. Disbursements made by said last named towns in excess of said one twenty-fifth of one per cent. shall be reimbursed by the Commonwealth every sixty days; but in the case of all others the Commonwealth shall reimburse cities and towns annually according to the provisions of this act.

No city or town shall be entitled to any reimbursement from the Commonwealth until it has submitted to the auditor of the Commonwealth itemized accounts and vouchers showing the definite amount expended by it for the purpose of this act; nor shall any money be paid out of the treasury of the Commonwealth to cities or towns, pursuant to the provisions of this act, until said vouchers and accounts have been approved by the auditor of the Commonwealth.

For the purposes of this section the years nineteen hundred and five and nineteen hundred and seven shall be considered half years, and the valuation for the year nineteen hundred and four shall be taken as a basis.

Section 5. When, in the opinion of the superintendent, any city or town is not expending a sufficient amount for the abatement of said nuisance, then the superintendent shall, with the advice and consent of the governor, order such city or town to expend such an amount as the superintendent shall deem necessary: *provided*, that no city or town where the assessed valuation of real and personal property exceeds six million dollars shall be required to expend during any one full year more than one fifteenth of one per cent. of such valuation, and that no town where the assessed valuation of real and personal property is less than six million dollars shall be required to expend during any one full year more than one twenty-fifth of one per cent. of such valuation. For the purposes of this section the valuation of the year nineteen hundred and four shall be used.

Any city or town failing to comply with the directions of the said superintendent in the performance of said work within the date specified by him shall pay a fine of one hundred dollars a day for failure so to do; said fine to be collected by information brought by the attorney-general in the supreme judicial court for Suffolk county.

Section 6. The mayor of every city and the selectmen of every town shall, on or before the first day of November in each year, and at such other times as he or they shall see fit, or as the state superintendent may order, cause a notice to be sent to the owner or owners, so far as can be ascertained, of every parcel of land therein which is infested with said moths; or, if such notification appears to be impracticable, then by posting such notice on said parcels of land, requiring that the eggs, pupæ and nests of said moths shall be destroyed within a time specified in the notice.

When, in the opinion of the mayor or selectmen, the cost of destroying such eggs, pupæ and nests on lands contiguous and held under one ownership in a city or town shall exceed one half of one per cent. of the assessed value of said lands, then a part of said premises on which said eggs, pupæ or nests shall be destroyed may be designated in such notice, and such requirements shall not apply to the remainder of said premises. The mayor or selectmen may designate the manner in which such work shall be done, but all work done under this section shall be subject to the approval of the state superintendent.

If the owner or owners shall fail to destroy such eggs, pupæ or nests in accordance with the requirements of the said notice, then the city or town, acting by the public officer or board of such city or town designated or appointed as aforesaid, shall, subject to the approval of the said superintendent, destroy the same, and the amount actually expended thereon, not exceeding one half of one per cent. of the assesed valuation of said lands, as heretofore specified in this section, shall be assessed upon the said lands; and such an amount in addition as shall be required shall be apportioned between the city or town and the Commonwealth in accordance with the provisions of section four of this act. The amounts to be assessed upon private estates as herein provided shall be assessed and collected, and shall be a lien on said estates, in the same manner and with the same effect as is provided in the case of assessments for street watering.

Section 7. If, in the opinion of the assessors of a city or town, any land therein has received, by reason of the abatement of said nuisances thereon by said superintendent or by said city or town, a special benefit beyond the general advantage to all land in the city or town, then the said assessors shall determine the

value of such special benefit and shall assess the amount thereof upon said land: *provided*, that no such assessment on lands contiguous and held under one ownership shall exceed one half of one per cent. of the assessed valuation of said lands; and *provided*, that the owner or owners shall have deducted from such assessment the amount paid and expended by them during the twelve months last preceding the date of such assessment toward abating the said nuisances on said lands, if, in the opinion of the assessors, such amount has been expended in good faith. Such assessment shall be a lien upon the land for three years from the first day of January next after the assessment has been made, and shall be collected under a warrant of the assessors to the collector of taxes of such city or town, in the manner and upon the terms and conditions and in the exercise of the powers and duties, so far as they may be applicable, prescribed by chapter thirteen of the Revised Laws relative to the collection of taxes.

Real estate sold hereunder may be redeemed within the time, in the manner, and under the provisions of law, so far as they may be applicable, set forth in chapter thirteen of the Revised Laws for the redemption of land sold for taxes.

A person aggrieved by such assessment may appeal to the superior court for the county in which the land lies, by entering a complaint in said court within thirty days after he has had actual notice of the assessment, which complaint shall be determined as other causes by the court without a jury. The complaint shall be heard at the first sitting of said court for trials without a jury after its entry; but the court may allow further time, or may advance the case for speedy trial, or may appoint an auditor as in other cases. The court may revise the assessment, may allow the recovery back of an amount wrongfully assessed which has been paid, may set aside, in a suit begun within three years from the date thereof, a collector's sale made under an erroneous assessment, may award costs to either party and may render such judgment as justice and equity require.

If, in the opinion of the assessors, the owner of an estate upon which an assessment, as aforesaid has been made, by reason of age, infirmity or poverty unable to pay the assessment, they may upon application abate the same. Every city or town in rendering an account to the state auditor as provided for in section four of this act shall deduct from such amount as it has expended in excess of one twenty-fifth of one per cent. or of five thousand dollars as provided in said section, the total amount it has received for work performed under section six of this act during the term covered by the account: *provided*, such work was performed under such conditions as required reimbursement in whole or in part by the State.

Section 8. To meet the expenses incurred under authority of the act, there shall be allowed and paid out of the treasury of the Commonwealth, during the period up to and including May first, nineteen hundred and seven, the sum of three hundred thousand dollars. Of this amount seventy-five thousand dollars may be expended during the calendar year nineteen hundred and five; one hundred and fifty thousand dollars, and any unexpended balance of the previous year, may be expended during the calendar year nineteen hundred and six; and seventy-five thousand dollars, and any unexpended balance of the previous years, may be expended during the calendar year nineteen hundred and seven, up to and including May first.

Section 9. An additional sum of ten thousand dollars in each of the years nineteen hundred and five, nineteen hundred and six and nineteen hundred and seven may, in the discretion of the state superintendent, be expended by him for experimenting with parasites or natural enemies for destroying said moths, and any unexpended balance of any year may be expended in the subsequent years.

Section 10. Chapter two hundred and ten of the acts of the year eighteen hundred and ninety-one and sections one and two of chapter five hundred and forty-four of the acts of the year eighteen hundred and ninety-eight and section two of chapter fifty-seven of the acts of the year nineteen hundred and two, are hereby repealed.

Section 11. A person who wilfully resists or obstructs the superintendent or an official of a city or town, or a servant or agent duly employed, while lawfully engaged in the execution of the purposes of this act, shall forfeit a sum not exceeding twenty-five dollars for each offence.

Section 12. Valuations of real and personal property of the year nineteen hundred and four shall govern the provisions of this act.

Section 13. This act shall take effect upon its passage. [*Approved May 8, 1905.*

PLAYGROUNDS IN CAMBRIDGE.

The manifest disadvantages that the City of Cambridge now labors under in the matter of public parks and playgrounds should meet with some speedy recognition by the City Government. The motive of these long felt wants is now so urgent as to demand public action toward their fulfillment. We have shown a very commendable interest for some years past in matters pertaining to rapid transit and beautifying the approach to the City and even the internal improvements have not been neglected, but we have shown a wilful disregard for the needs of our young.

The example of our sister city across the Charles is worthy of emulation. Pioneers in the work, they have now come to be regarded as possessing the finest system of parks and playgrounds in the country. Realizing the needs of any congested community where the recreations and joys of country life are, perforce, denied to city youths, they have installed playgrounds in various parts of the city to provide proper development of the young.

The rapid growth of cities and their spreading industries gradually but surely encroach upon the domains of youth and some means must be devised to fill the wants. Recreations in the spring time of youth are just as essential to the proper development of man as intellectual training, for one is the complement of the other.

The agitation for parks and playgrounds is no new theory. It has come to be regarded just as necessary to a city's welfare as the building of streets or the providing of the latest sanitary facilities. Delegations from every large city in the country come east to inspect the system of parks and playgrounds and as a result of their investigations playgrounds are now to be found in every city of consequence. San Francisco, Chicago, Minneapolis, St. Paul, Denver, St. Louis, New Orleans, Baltimore, Philadelphia, Buffalo, New York and hundreds of other cities and towns have now a most advanced system of playgrounds and gymnasia.

To those who have watched the development of Cambridge during the past decade, it can readily be seen that in a very short time the march of industry will have absorbed the available space in the community. To anticipate the condition that will result from this advance it behooves a prominent municipality to provide breathing spaces for its people. The conditions existing in the tenement districts of New York and Boston are most appalling and to relieve the suffering and allay the diseases in these communities has been one of the most serious problems that confronted the city authorities. The opening of playgrounds in these sections, and the vast throngs who took advantage of their blessings

amply repaid the expenditures that they occasioned. Such conditions should not be left to happen here. We should make some provision for these conditions which are inevitable.

Spaces should be set off in different parts of the City to provide for a general meeting place for the several communities. Lots could be laid out for the games of the young. Ball parks and skating fields and shower baths in a locker building could be provided. The baths could be opened for the public use at all seasons of the year and altogether the benefit to the public would be inestimable.

Monies that are now devoted to less urgent needs should be appropriated for this work, and it would meet with universal approval. We trust the City Government will awaken to this popular call for playgrounds and provide something in this line for the direct want of the people.

THE YEAR'S EXPENDITURES.

The expenses of the department for the year are shown in the following summary of the departmental accounts: —

PARK LOANS.

(Lands and Construction.)

Amount of unused balance of 1904 appropriation reappropriated December 7, 1904	$5,423 87
Amount appropriated March 25, 1905	35,000 00
	$40,423 87

EXPENDED.

River Parkway, Section A.			
Pay-roll	$5,234 50		
Loam	535 87		
Ashes	266 30		
Engineering	140 25		
Teaming	87 38		
Street watering	85 00		
Picks and handles	29 50		
Stakes for engineers	10 00		
		$6,388 80	
River Parkway, Section B.			
Pay-roll	$3,094 75		
Teaming	72 50		
Engineering	33 00		
Street watering	59 50		
Ashes	22 82		
Lawn mowers	15 70		
Repairs to water pipes	7 92		
Turning water off and on	2 00		
Pails and dippers	72		
Making eye bolt	56		
		3,309 47	
River Parkway, Section C.			
Pay-roll	$1,043 75		
Filling	476 61		
Engineering	299 76		
Street watering	59 50		
Hardware	1 20		
		1,880 82	
River Parkway, Section D.			
Ashes	$5,440 04		
Pay-roll	4,810 09		
Filling	1,194 30		
Engineering	827 75		
Building new lockers and repairs to old ones at Captain's Island	267 15		
Teaming	210 00		
Amounts carried forward	$12,749 33	$11,579 09	$40,423 87

Amounts brought forward	$12,749 33	$11,579 09	$40,423 87
Lighting Captain's Island	186 22		
Street watering	85 00		
Paint	55 00		
Stonedust	48 35		
Wheel barrows	48 00		
Hardware	42 90		
Clock, and installing same at Captain's Island	29 73		
Lumber, (back stop)	17 80		
Lawn mowers	15 70		
Weeding blades	12 00		
Stakes for engineers	10 25		
Loam	9 18		
Coal	4 10		
Water off and on	1 00		
Oakum and putty	40		
		13,314 96	
River Parkway, Section F.			
Pay-roll	$3,389 00		
Ashes	1,424 95		
Insurance on Weld Boat House	360 00		
Filling	207 08		
Loam	132 74		
Street watering	85 00		
Repairing Weld Boat House	84 04		
Teaming	83 75		
Engineering	79 75		
Sods	27 09		
Bicycle repairs	8 75		
Tools	2 00		
Gravel	1 05		
		5,885 20	
Nursery.			
Pay-roll	$816 00		
Coal	6 40		
		822 40	
General Account.			
Salary of Gen. Supt. of Parks	$1,500 00		
Pay-roll	789 00		
Wrought iron fence around Washington Elm	519 00		
Hire of horse	280 00		
Rent of stables	270 00		
Hay and grain	217 08		
Car tickets	200 00		
Horse	200 00		
Printing and binding report of 1904	153 15		
Horse shoeing	80 75		
Exchange of carriage	80 00		
Tip cart	60 00		
New stalls and repairs to stables	58 72		
Lumber	52 46		
Garden hose	41 50		
Amounts carried forward	$4,501 66	$31,601 65	$40,423 87

Amounts brought forward	$4,501 66	$31,601 65	$40,423 87
Harness	25 00		
Hardware, tools, etc.	24 43		
Horse blankets, etc.	14 75		
Water rates, stable	11 50		
Repairing bicycle	10 00		
Steel tape for engineers	9 00		
Sods	8 85		
Lubricating oil	8 23		
Stakes for engineers	7 53		
Hire of sleigh	6 00		
Printing	5 50		
Photographic supplies	5 21		
Animal food	5 00		
Paints, etc.	3 85		
Wagon repairs	3 50		
Clipping horse	3 00		
Expressage	2 00		
Miscellaneous supplies	50		
		4,655 51	
Office Expenses.			
Pay-roll	$663 34		
Telephone service	129 06		
Stationery	64 78		
Printing and stock	41 00		
Postage stamps	28 50		
Pay-roll book	18 75		
Rubber stamps and repairing	4 80		
Flower boxes	3 60		
Cambridge Directory, 1905	3 50		
Repairing telephone call bell and door opener	2 40		
Subscription Municipal Journal and Engineer	2 00		
Cotton cloth	44		
		962 17	
Total			37,219 33
Balance unexpended			$3,204 54

PARK LOANS.

(Lands and Construction.)

Grading at Rindge Field.

Amount appropriated May 11, 1905			$1,000 00
EXPENDED.			
Pay-roll	$824 84		
Engineering	22 00		
Total			846 84
Balance unexpended			$153 16

Shelter at Rindge Field.

Amount appropriated May 11, 1905			$4,000 00

(Not expended in 1905.)

East Cambridge Embankment.

Amount appropriated May 11, 1905		$15,000 00
EXPENDED.		
Pay-roll	$9,589 75	
Teaming	893 76	
Ballast	742 20	
Loam	681 91	
Tools	218 65	
Engineering	197 99	
Stakes for engineers	55 00	
Making ring bolts	10 47	
Bicycle repairing	7 00	
Pails and dippers	1 95	
Lumber	1 37	
Twine	95	
Total		12,401 00
Balance unexpended		$2,599 00

PARK MAINTENANCE.

Brown-Tail Moth Extermination.

Amount appropriated January 14, 1905		$4,000 00
Amount appropriated March 9, 1905		2,000 00
Amount appropriated April 5, 1905		1,000 00
Amount appropriated June 15, 1905		1,000 00
Amount appropriated September 1, 1905		2,000 00
Amount appropriated November 16, 1905		2,000 00
		$12,000 00
EXPENDED.		
Pay-roll	$10,493 21	
Creosote	383 05	
Disparene	105 00	
Entertaining Finance Committee	68 10	
Hardware, tools, etc.	65 17	
Spraying pump	65 00	
Repairs to old ladders	41 10	
Printing and stock	22 50	
New ladder	19 50	
Expressage	11 90	
Lumber (for handles for clippers)	10 37	
Printing notices to "property owners"	10 00	
Lumber	7 11	
Disinfectant	6 25	
"Tanglefoot" for trees	6 25	
Kerosene oil	5 50	
Paints	1 92	
Repairing bicycle	1 00	
Pails for disparene	75	
Bagging for trees	37	
Total		11,324 05
Balance unexpended		$675 95

Cambridge Field and Shelter.

Amount appropriated March 25, 1905		$6,000 00
EXPENDED.		
Pay-roll	$4,024 25	
Lighting	726 36	
Repairing shower baths	388 15	
Towels	191 00	
Paint	152 30	
Coal	150 00	
Re-constructing electric lights	106 20	
Loam	52 40	
Building benches in locker room	52 00	
Laundering towels	31 89	
Teaming	21 00	
Toilet paper	18 00	
Awnings	16 00	
Plumbing	12 80	
Hardware	10 50	
Miscellaneous supplies	8 80	
Soap	7 00	
Brushes	6 44	
Grate for catch basin	5 20	
Feather dusters	4 50	
Repairing drinking fountain	3 30	
Expressage	3 25	
Mops	2 10	
Lumber	2 00	
Printing	2 00	
Lime and cement	1 65	
Dippers	45	
Total		5,999 54
Balance unexpended		$0 46

Commons, Squares and Public Grounds.

Amount appropriated March 25, 1905		$5,000 00
EXPENDED.		
Pay-roll	$4,021 13	
Lighting	348 00	
Housing top masts, fixing halyards, etc.	104 00	
Assorted plants (for flower beds)	96 00	
Lumber for walks	60 90	
Bulbs	60 68	
Teaming	47 50	
Hardware	44 50	
Repairing iron fence at Dana Square	41 00	
Grass seed	31 00	
Garden hose	28 00	
Shrubs (Berberis Thumbergii)	22 00	
Paint	15 88	
Flag and repairing	14 63	
Amounts carried forward	$4,935 22	$5,000 00

Amounts brought forward	$4,935 22	$5,000 00
Repairing tablet at Cambridge Common	13 40	
Loam	9 60	
Lumber	8 00	
Bicycle repairs	7 25	
Fixings for lawn mowers	7 20	
Wire	6 13	
Slats for settees	4 68	
Repairing water pipes	3 25	
Printing	2 50	
Sundries	2 17	
Expressage	30	
Total		4,999 70
Balance unexpended		$0 30

Shade Trees.

Amount appropriated March 25, 1905 . . . . . $5,000 00

EXPENDED.

Pay-roll	$3,985 31	
Tree poles	238 60	
Wire for tree guards	212 52	
Loam	189 40	
Trees	136 00	
Teaming	69 76	
Tools	62 32	
Engineering	41 25	
Marline and lath yarn	20 60	
Sharpening saws	14 90	
Repairing bicycle	11 50	
Repairing fence broken by tree	4 80	
Freight charges on trees	3 52	
Garden hose	2 70	
Kerosene oil	2 40	
Printing cards	1 50	
Printing notices (for trees)	1 00	
Expressage	65	
Handles for saws	50	
Total		4,999 23
Balance unexpended		$0 77

Sections A, B, D, F and Rindge Field.

Amount appropriated March 25, 1905 . . . . . $3,500 00

EXPENDED.

Section A.		
Lighting	$216 36	
Section B.		
Lighting	803 65	
Amounts carried forward	$1,020 01	$3,500 00

Amounts brought forward		$1,020 01	$3,500 00
Section D.			
Lighting		737 18	
Section F.			
Lighting		288 92	
Rindge Field.			
Pay-roll	$896 25		
Lighting	253 78		
Teaming	174 00		
Engineering	74 25		
Stakes for engineers	19 50		
Paint	10 36		
Advertising for "Shelter"	9 50		
Felting for Nursery	6 10		
Repairing water pipes	4 85		
Hardware	2 96		
Expressing	1 15		
Grate for stove	1 00		
		1,453 70	
Total			3,499 81
Balance unexpended			$0 19

Sections G and H.

Amount appropriated March 25, 1905	$3,500 00

EXPENDED.

Pay-roll	$2,554 25	
Lighting	830 51	
Street watering	85 00	
Repairing water pipes	21 16	
Paving blocks (old)	8 00	
Expressage	75	
Total		3,499 67
Balance unexpended		$0 33

Bath House.

Amount appropriated March 25, 1905	$2,100 00
Revenue from Bath House (above $1,500.00)	171 93
	$2,271 93

EXPENDED.

Pay-roll	$1,561 84	
Lighting	175 37	
Bathing suits	151 50	
Laundering towels	147 41	
Towels	48 60	
Manila rope	39 34	
Paint	36 45	
Printing and stock	32 00	
Amounts carried forward	$2,192 51	$2,271 93

Amounts brought forward	$2,192 51	$2,271 93
Supplies (thread, tape, needles, etc.)	17 80	
Stockings	17 70	
Wringers and installing same	15 00	
Disinfectant	12 80	
Tubs, clothes line, etc.	5 95	
Kerosene oil	4 25	
Expressage	2 16	
Oars	1 75	
Hardware, tools, etc.	1 12	
Total		2,271 04
Balance unexpended		$0 89

General Account.

Amount appropriated March 25, 1905	$600 00

EXPENDED.

Rent of stable	$270 00	
Hay and grain	138 45	
Lumber	39 12	
Paint, etc.	34 50	
Iron frames	29 00	
Coal	25 60	
Harness repairs	25 15	
Shoeing horse	20 50	
Lighting stable	10 28	
Hammers	2 75	
Locks and keys	1 40	
Kerosene oil	1 20	
Grate for stove	85	
Total		598 80
Balance unexpended		$1 20

Respectfully submitted,

JAMES A. MONTGOMERY,
General Superintendent of Parks.

REPORT OF THE BOARD OF CEMETERY COMMISSIONERS

CAMBRIDGE, December 1, 1905.

To the Honorable, the City Council: —

The Board of Commissioners of the Cambridge Cemetery respectfully submits the fifty-second annual report, the same being for the year ending November 30, 1905.

The amount appropriated at the beginning of the year was,

Salaries, $15,000 00	General Expenses, $3,000 00

The total amount of expenditures was

$15,692 91	$2,299 17

The additional appropriation required to meet the expenditure for Salary Account was secured from the City Council by a special order transferring the sum of seven hundred dollars ($700.00) from the appropriation for General Expenses.

For a detailed account of expenses, reference is made to the City Auditor's report.

The receipts of the year have been as follows: —

Burial and tomb fees	$3,573 50
Care of lots	2,164 00
Sale of lots and graves	7,568 00
Foundations, brick graves, etc.,	1,596 25
Interest on Cemetery Fund	2,296 62
Sundries	463 55
Total	$17,661 92

The estimated revenue by this Board from General Account was $18,000.00; decrease of revenue under estimate, $338.08.

The revenue for several seasons past has been decreasing gradually despite all efforts made to keep it in a normal condition.

The causes of this decrease have been discussed in previous reports, and an opinion has been prevalent among the members of the Board that the smaller annual return was due to a lack of choice of burial places.

The completion of the work on the Knoll at the junction of Rosebay and Winchester Avenues, has already placed at the disposoal of the Board sixty-nine (69) lots, most of which are immediately available. Although the work was not completed until late in the season three lots have been sold already, for which $1,292.50 has been received, and for

the immediate future, a fair opportunity will be accorded prospective lot owners to exercise a discretion in their family lots.

This opportunity should result in an increase of revenue, for the lots at the place mentioned being of considerable area, are of corresponding value.

In view of the necessity heretofore existing of attempting to explain annual deficits in revenue, it is with some feeling of satisfaction that the Board notes the receipt of $2,800.00 over the revenue of 1904, all of which increase has been realized from augmented sales.

This condition of affairs has been anticipated by the Board, as is evidenced by its estimate of revenue, which was $18,000.00. A continuation of the present satisfactory account for revenue is confidently expected during the next season.

The interments have been less than for some years, the amount realized being the lowest for at least fifteen years, and $700.00 less than for the past season. Had this source of revenue equalled the ordinary amount, the estimate made by the Board would have been exceeded.

CARE OF LOTS.

Proprietors of lots and graves have evinced a commendable desire to properly care for their holdings, and nine hundred and forty-seven lots have received the attention of the Cemetery authorities on orders for annual care.

To this number must be added the lots which have been placed in perpetual care, and it will be seen that of the 2,876 lots which have been sold, 1,441 have been given the attention so necessary to their good appearance.

This activity on the part of lot owners supplements the work which is being done by the Cemetery authorities to beautify and adequately maintain the charge which has been committed to their keeping.

Without the co-operation of the individual owners, the efforts of the Board would be greatly minimized and have little practical result.

It is to be regretted that all owners do not place their lots in the perpetual care system. By this method they would forever insure the preservation of that neat appearance which is so pleasing to all who have occasion to visit the grounds.

The cost has been placed as low as possible in order to encourage the use of this system, and the Board feels confident that this style of caring for lots is worthy of examination.

Were all the lots in perpetual care, few Cemeteries would present a more gratifying appearance than our own. The City is doing its share to obtain a good result, and lot owners should reciprocate.

During the year 1905, orders were received to place in perpetual care twenty-eight lots, and the sum of $2,732.13 was deposited in th Fund for this purpose.

The Fund now amounts to $65,314.23.

The Superintendent reports the following statistics: —

Interments for 1905	550
Interments, total	26,473
Interments (Overseers of the Poor)	21
Lots sold	43
Graves sold	44
Graves leased (to Sept. 1st.)	89
Lots ready for sale	161
Estimated value of same	$38,907 00
Graves ready for sale	131
Estimated value of same	$2,035 00
New lots graded and bounded with granite posts	82
New lots graded and bounded (not ready for sale)	46
Foundations laid	132
Brick and slate graves made	22

TEMPORARY INTERMENTS.

In new tomb 7; in old tomb, 7	14

The labor roll has been maintained to the maximum limit, and the appropriation for labor account has been sufficient to enable the Board to keep the force employed even after the coming of the frost.

The results from the continuation of the working force late in the season, have been evident in the large amount of land which has been graded and loamed, preparatory to laying out into lots and graves.

The general appearance of the grounds during the summer months has been so gratifying as to win favorable comment from lot owners and visitors, a large number of whom have favored the Cemetery with their presence.

The work of laying out the land in the vicinity of Greenwood and River Avenues has been continued. A large space has been covered, loamed and seeded, and is now ready for posting.

Should the appropriation for the ensuing year permit, the grading on this section will be pushed so as to place this most desirable portion of the grounds in condition for sale.

In its last report, the Board recommended a special appropriation for salaries in order to improve the undeveloped area. Had it been possible to grant this request, the work of completing the area at the disposal of the Board, would have been practically completed.

The Board would again recommend a substantial appropriation so as to allow the completion of this work. The cost will be almost entirely for labor, as only ordinary filling will be needed.

The land at the southerly side of River Avenue near the boundary line of the grounds, has been filled to a considerable extent, and graded. The filling was accomplished without extra charge on the appropriation account by utilizing the surplus material from the grading in other portions of the grounds.

It has been necessary to give particular and speedy attention to this locality because of the lack of single range graves, and deep filling was required to bring the land to a suitable grade for burial. This work will be gradually continued until most of the area at this point will be brought to grade.

The lots on the Knoll at the junction of Winchester and Rosebay Avenues, have all been laid out, graded and posted. During the year the granite work has been pointed, the granolithic walk satisfactorily laid by the W. A. Murtfeldt Co., and, as expected by the Board, indications point to a ready sale of these most desirable burial places. From all points of view this location appears to be the finest in the Cemetery and already four lots have been sold, even before completion, while several others are being considered.

The lots are all advantageously situated and are of good size, while the price placed upon them is a reasonable one.

A much needed improvement has been accomplished in the Cemetery office by the introduction of a system of lighting. Gas pipes have been laid to the building, and connections made so that hereafter there will be adequate lighting facilities.

While the main office has been used for chapel purposes on several occasions, much better accommodations can reasonably be urged. The present arrangement interferes with the conduct of business, and it has been suggested that the house which was formerly occupied by the Superintendent, might be altered to serve the purpose of a chapel.

The Board would like to give better chapel accommodations, but must refrain from any further expense unless an apppropriation shall be made for the purpose.

In the last report the following statement was made: —

"The condition of the wall, extending from the Winchester Avenue entrance and the boundary on Coolidge Avenue to the extremity at the Watertown line, demands immediate attention. This wall is probably forty years old and was not constructed in a substantial manner, the stone being placed on edge instead of in the width. The life of the mortar is gone, with the result that the wall is fast crumbling to pieces. As this wall acts not only as a boundary but also as a retaining wall for Coolidge Avenue, it will be necessary to repair and strengthen it before any lots are laid out in this portion of the grounds.

"The Board feels that the proper manner in which to treat this wall

is to entirely reconstruct it to about six inches above the surface of the street and then continue the iron fence, at least as far as the River Avenue gateway on Coolidge Avenue. This would require 1,800 feet of fence, and the cost would undoubtedly be about $6,000.00. If it is not possible to complete this wall and fence during the coming season, sufficient money should be appropriated to enable a substantial part of the same to be constructed. This recommendation is made both from the viewpoint of appearance and utility."

It is only necessary to add, that as an appropriation was not made for the foregoing purpose, nothing has been done to remedy the conditions.

The recommendation is renewed with the statement that the work should be begun without delay, as the laying out of the contiguous land will be delayed until some steps shall be taken to build a proper retaining wall.

Attention is called to the prevalence of the brown-tail and gypsy moths. In February last, all the trees and shrubs were carefully examined and an enormous number of nests destroyed, but a recent examination reveals the presence of the pests in even greater numbers.

The work of destroying the nests of these moths must be done most thoroughly this winter or the result will be disastrous to the trees and foliage of the Cemetery.

A like condition exists at the Old Burial Ground in Garden Street, where the brick work on the old buildings in the rear of the Burial Ground, is infested with the eggs of the gypsy moths.

The Old Burial Ground will require some extra attention next season. The shrubbery has outgrown its location in many places, and should be thinned out, while many stones, and a few of the tombs will require repairs. The most pressing need, however, at this place is the repainting of the iron fence surrounding the ground. These things will necessitate an expenditure of about $300.00.

DECEASE: COMMISSIONER LOMBARD.

On February 24, 1905, Mr. Nathan C. Lombard, an esteemed associate on this Board, departed this life.

For fourteen years he had served as a member, bringing to the Board a trained and mature mind, which caused him to be of invaluable assistance in the work of the Commission. He had been called to many positions of public trust and confidence, and by his excellent judgment and fidelity to his trust, always merited the praise of his fellow citizens.

His service on this Board had endeared him to his colleagues. He

was just, true and faithful to good ideals, and the recollection of him will ever be tenderly cherished by those who were fortunately identified with him in his official life.

As a mark of respect the members of this Board attended his funeral as a body, and a memorial page in the official record was dedicated to his memory.

On March 17, 1905, Mayor Daly appointed to the vacancy caused by the death of Mr. Lombard, Mr. William A. Bertsch, who had formerly acted on the Board from 1890 to 1903.

JOHN LYNCH,
HERBERT A. CHASE,
SAMUEL USHER,
JOHN S. CLARY,
WILLIAM A. BERTSCH,
GUSTAVE WILSON,
} *Commissioners.*

REPORT OF THE SUPERINTENDENT OF PUBLIC BUILDINGS

To the Honorable, the City Council of the City of Cambridge:—

Gentlemen:—In accordance with Section 2, Chapter 13, of the City Ordinances, it becomes my duty to submit to your honorable body the following report of the Building Department of this City for the year 1905, including a detailed report of the Inspector of Buildings.

In addition to the necessary repairs on the various public buildings and schoolhouses in the care of this Department, permanent alterations and additions have been made in three of the larger schoolhouses, for which special appropriations were authorized by the City Council. These alterations and additions have added to the capacity of the schools and greatly increased their value.

The repairs on school buildings during the past year were not extensive owing to the small sum available for this work, namely, about $12,000. Therefore a very large amount of work which should have been done this year was necessarily omitted. This work ought not to be longer deferred and an appropriation should be made the coming year, sufficient to do the work thoroughly. His Honor, the Mayor, has visited many of the buildings and fully agrees with me in this very important matter.

The small appropriations which have been made during the past few years for the repair of public buildings, only admit of a very limited amount being done, and your Superintendent is necessarily obliged to reserve some portion of these amounts for contingencies which are sure to arise from various causes, which in making his estimate, are impossible to anticipate. I would therefore most emphatically urge that your honorable body give this matter serious consideration this year in order that the work which is of such vital importance to the preservation of valu able City property may no longer be postponed. I will add that there are many buildings which were erected thirty or forty years ago on which next to nothing has been done in the way of renovation; in some the interior woodwork is almost without paint, the floors entirely worn out, the walls and ceilings in bad condition, in many cases the plastering is ready to fall off and this has frequently occurred and at times when it

is expensive to replace it. Windows are worn out and should be replaced with new ones, constant patching being necessary to maintain them in place. All these things tend to make the buildings unsanitary.

Important permanent improvements were made as follows:—

LATIN SCHOOL.

The alterations consisted of making two additional class rooms. New ventilation system was installed for the chemical laboratory. The old earthern vent ducts were discontinued because of serious defects. The new system saves the expense of running the electric fan and motor which were in use. New desk telephones were installed and the old wall telephones removed and used in another school. New granolithic walks were laid.

RINDGE MANUAL TRAINING SCHOOL.

Acting under an order of the City Council approved June 23, 1905, for the renovation of the basement of this school, plans were made by the architect of the school, Mr. Geo. T. Tilden, and bids were received for the work. The lowest bid was that of John P. Delaney and the contract was awarded to him, the contract price being $11,358. The work includes new sanitaries, heating apparatus, granolithic floor, enlarging basement windows, light and air areas built on the outside, new drainage for same; plastering of the entire basement ceiling and beams on metal laths; cementing of rough stone walls; painting the brick walls and ceilings; four new flights of iron stairs; electric wiring and new fixtures; 450 wire lockers; telephone system connecting the three buildings with the principal's office.

These changes make the basement entirely fireproof and up-to-date in every particular. It makes perfectly dry and light rooms which can be used for any purpose, and removes all danger of fire, which under the old arrangement of decayed wooden floors, dilapidated lockers and wooden partitions, existed to a very great extent.

The changed uses of the building made it necessary to remove all the pupils' furniture from the Washington School and to replace it with new adjustable furniture.

Electric wiring and fixtures for lighting the evening drawing school have been installed. The three buildings are now lighted from current generated by the power plant in the main building.

These improvements are worth many times their cost and have added greatly to the efficiency of the school.

ROBERTS SCHOOL.

Acting under an order of the City Council approved May 3, 1905, for the addition of four rooms to the Roberts Schoolhouse and for alterations in the assembly hall, plans were made by the architect of the building, Mr. Geo. A. Moore, and bids were received for the work. The lowest bid was that of Rufus E. Lord and the contract was awarded to him, the contract price being $13,952. The work includes four new class rooms added by raising the roof on both wings, making sixteen class rooms in the building; heating and ventilating system enlarged, sanitaries removed to a more desirable part of the basement, the stage of the assembly hall enlarged and remodelled and two large skylights removed from the ceiling of the hall.

The entire cost of the improvements in the building was $20,950. The building is greatly improved in exterior appearance and the interior arrangements are such as to make the building the equal of any of the larger schoolhouses, and superior to many of them.

HOUGHTON SCHOOL.

This building was completed during the year and occupied at the opening of the fall term. It is complete in every detail and meets with the approval of all who have visited it. The rooms are well lighted and pleasant; the corridors and coat rooms are spacious; every up-to-date improvement has been provided. The heating, ventilating and sanitary arrangements are of the best and give excellent satisfaction. Granolithic walks and sidewalks have been laid and the grounds graded and sodded.

The appropriation enabled me to complete the work in every particular and a substantial balance remains with which I shall be able to provide for any needs which may arise.

The building reflects great credit upon the builder, Mr. John B. Byrne, and the architect, the late George Fogerty, and is one of the best buildings owned by the City.

The entire cost of the building to the City will be as follows: —

Building	$80,288 48
Land	10,850 00
Furniture, sidewalks, walks and grading, etc.	8,861 52
	$100,000 00

SCHOOLS — 1905 — CARE AND REPAIR.

NAMES.	FUEL.			REPAIRS.			SUPPLIES.				EXTRA LABOR.		Janitors.	Totals.
	Coal.	Char-coal.	Wood.	On Build-ing.	On Fur-niture.	On Heating App's.	Fur-niture.	Gas.	Elec-tric.	Sun-dries.	Help.	Sundry.		
Agassiz	$583 10	$6 25	$11 37	$49 53	$16 32	$5 80	$10 00	$6 00	.....	$0 15	.....	.....	$624 00	$1,312 52
Boardman	553 60	12 50	11 57	389 55	.....	68 20	.....	11 00	.....	3 75	.....	$14 00	624 00	1,688 17
Corlett	169 15	.....	13 49	141 35	2 50	13 95	.....	.....	.....	.....	.....	9 60	260 00	610 04
Cushing	237 80	.....	15 73	75 54	.....	29 38	.....	.....	.....	2 08	.....	11 55	260 00	632 08
Ellis	1,199 34	10 00	11 88	29 32	.....	13 30	.....	3 80	.....	15 75	.....	.....	936 00	2,219 39
Felton	563 43	7 50	10 87	67 45	.....	13 95	.....	16 70	.....	1 00	.....	.....	520 00	1,200 90
Fletcher	1,571 99	.....	18 88	106 81	17 00	19 38	52 04	3 30	$1 35	6 51	.....	279 19	1,144 00	3,220 45
Gannett	461 45	10 00	10 87	5 51	13 15	20 35	.....	2 90	.....	1 30	.....	17 96	602 00	1,145 49
Gannett (old)	235 40	.....	.....	48 06	.....	.....	.....	1 30	.....	.....	.....	.....	.....	284 76
Gore	377 80	.....	4 00	295 56	12 00	18 59	.....	19 00	.....	8 20	.....	.....	780 00	1,515 15
Harvard	1,090 50	11 25	11 88	219 56	1 00	18 18	.....	4 90	13 69	5 60	.....	13 00	1,196 00	2,585 56
High	1,676 85	.....	15 75	1,041 27	26 82	132 82	.....	27 40	491 97	41 46	$1,183 25	4 70	1,989 25	6,631 54
Holmes	173 70	6 25	13 49	32 45	35	6 16	.....	1 90	.....	50	.....	3 55	350 00	588 35
Houghton	10 46	.....	3 88	.....	.....	.....	.....	.....	.....	1 00	.....	.....	286 00	301 34
Kelley	772 40	22 50	11 88	328 71	21 74	25 41	67 00	6 10	42 39	31 37	.....	239 54	1,300 00	2,869 04
Lassell	346 00	6 25	12 94	24 43	.....	8 35	.....	.....	.....	2 94	.....	.....	486 00	886 91
Latin	2,754 70	8 75	15 68	1,524 83	42 06	442 43	107 75	16 60	308 74	91 45	1,768 00	131 22	1,892 00	9,104 21
Lowell	144 20	6 25	13 49	309 30	75	99 97	.....	6 30	.....	4 29	.....	.....	350 00	934 55
Merrill	554 35	.....	7 88	170 48	9 00	18 02	.....	3 30	.....	3 13	.....	2 00	783 00	1,551 16
Morse	949 40	10 00	13 82	235 25	12 00	7 91	.....	46 00	.....	9 20	.....	.....	1,289 29	2,572 87
Otis	304 90	11 25	12 74	56 42	.....	25 75	.....	29 10	.....	2 90	.....	.....	624 00	1,067 06
Parker	716 55	6 25	27 36	503 10	2 75	150 55	179 75	23 00	.....	5 25	.....	.....	624 00	2,238 56
Peabody	1,026 74	12 50	7 88	172 26	8 80	.....	42 00	1 10	33 79	24 30	.....	.....	1,144 00	2,473 37
Putnam	1,620 00	.....	11 88	516 85	186 90	12 24	25 53	38 10	350 14	8 50	.....	2 64	1,320 00	4,092 78
Reed	207 55	3 75	8 99	42 99	3 50	35 05	.....	.....	.....	1 50	.....	14 40	520 00	837 73
Rindge Manual Training	2,428 25	.....	6 40	450 22	52 16	178 59	405 62	24 00	336 64	177 90	1,324 26	145 04	1,425 00	6,954 08
Riverside	251 13	5 00	15 99	11 80	3 25	22 85	.....	.....	.....	2 35	.....	.....	390 00	702 37
Roberts	1,198 80	.....	11 88	152 61	2 25	12 40	51 00	142 50	2 93	54 10	.....	2 23	1,100 50	2,731 20
Russell	834 75	.....	15 88	540 05	7 30	177 97	.....	14 40	.....	14 30	.....	.....	936 00	2,540 65
Sargent	.....	.....	.....	37 95	.....	.....	.....	90	.....	.....	.....	25 60	.....	64 45
Shepard	526 50	.....	7 88	210 16	33 14	17 24	.....	7 90	7 09	21 85	.....	.....	845 00	1,676 76
Sleeper	867 50	10 00	27 74	20 00	7 43	88 90	.....	1 60	.....	75	.....	28 80	728 00	1,780 72
Stearns	.....	.....	.....	20 17	.....	.....	.....	3 60	.....	.....	.....	106 60	.....	130 37
Tarbell	379 28	5 00	18 24	29 60	25 72	12 60	.....	.....	.....	3 65	.....	.....	390 00	864 09
Taylor	1,042 00	.....	19 88	122 38	27 09	15 48	.....	17 50	.....	4 27	.....	2 00	780 00	2,030 60
Thorndike	800 85	15 00	24 32	245 41	197 98	141 52	.....	24 60	.....	5 75	.....	.....	728 00	2,183 43
Washington	.....	.....	.....	570 14	129 39	.....	.....	9 10	.....	28 15	.....	48 19	1,092 00	1,876 97
Webster	861 16	15 00	17 98	502 05	171 65	48 62	76 70	20 20	70 14	3 10	.....	.....	1,209 00	2,995 60
Wellington	1,480 40	17 50	17 98	246 59	153 29	68 05	15 00	7 40	.....	3 35	.....	12 80	1,092 00	3,114 36
Willard	774 50	5 00	9 88	405 60	3 75	195 86	.....	25 70	.....	2 40	.....	34 28	780 00	2,236 97
Wyman	347 41	6 25	13 74	92 76	14 08	14 15	8 40	.....	.....	1 50	.....	27 20	520 00	1,045 49
All Schools	90 75	.....	.....	.....	.....	.....	67 15	8 80	104 38	1,316 65	.....	585 17	1,265 00	3,437 90
Totals	$30,184 64	$230 00	$505 99	$10,044 07	$1,205 12	$2,179 97	$1,107 94	$576 00	$1,763 25	$1,912 20	$4,275 51	$1,761 26	$33,184 04	$88,929 99

CITY BUILDINGS.

I desire to call the attention of your honorable body to the condition of the Brattle Square and Central Square buildings. The deplorable condition of these buildings can hardly be imagined, but a visit to either of them will convince any person of the great need of immediate and absolutely necessary repairs. The buildings have so long been neglected, owing to lack of sufficient appropriations, that a large sum should now be expended to place them in proper condition.

The City Hall is also in great need of repairs and renovation and should receive immediate attention as nothing in this valuable public building should be allowed to deteriorate.

I would again call your attention to the expediency of installing an electric plant for lighting the building and for operating the elevator. The cost of lighting the building is constantly increasing, and the saving on this item would, in a few years, pay for a modern plant. This subject merits the consideration of your honorable body, and if investigated will, I am sure, result in benefit to the City.

The present elevator and apparatus requires constant repairs and will soon have to be replaced with a modern one. The time is fast approaching when this will be imperative and steps should be taken towards this end.

I desire again to call your attention to the great need of fire-proof vaults in City Hall for the safe-keeping of records of the several departments.

My attention has been called to this matter by the City Clerk and Auditor. The capacity of the vaults at present used by these departments is exhausted, and in the case of the Auditor a large portion of his records are now stored in the basement in a temporary room not suited for this purpose, and in case of fire would be destroyed. The Building Department has no proper place for the safe-keeping of plans which are filed with applications for permits for new buildings. The room now used is in the attic of City Hall, a very unsafe place.

I would respectfully recommend that an appropriation be made in order that this work may be done as soon as possible. I would suggest that the room in the basement now used for storage by the School Department be used for this purpose and a suitable place provided for them elsewhere.

CITY BUILDINGS, 1905.

Names.	Fuel.			Repairs.			Supplies.				Extra Labor.		Janitors.	Totals.
	Coal.	Charcoal.	Wood.	On Building.	On Furniture.	On Heating App'ts.	Furniture.	Gas.	Electric.	Sundries.	Help.	Sundry.		
Brattle Square Building..	$1,375 25	$6 25	.....	$2,561 34	$4 65	$111 80	$90 00	$414 90	$138 40	$33 05	$602 00	$10 00	$832 00	$6,179 64
Central Square Building..	821 76	4 75	.....	456 54	1 50	4 16	.....	24 80	.....	14 40	427 00	10 00	832 00	2,596 91
City Hall.....	1,921 05	6 25	....	594 33	113 39	83 81	173 93	47 40	991 64	158 64	4,636 30	158 64	936 00	9,821 38
Miscellaneous Buildings.	792 03	.....	$2 38	115 36	12 75	196 84	.....	37 60	.....	1 50	195 43	.....	794 86	2,148 75
Totals.....	$4,910 09	$17 25	$2 38	$3,727 57	$132 29	$396 61	$263 93	$524 70	$1,130 04	$207 59	$5,860 73	$178 64	$3,394 86	$20,746 68

RIFLE RANGE.

Acting under an order of the City Council approved March 1, 1905, the equipment and lease of the Rifle Range at Lexington were sold, the City having no further use for them. The various militia companies at present use the range of the Bay State Military Rifle Association at Wakefield.

ELECTION BOOTHS.

The requirements of the Statutes and the orders of the City Council requiring me to put the polling places in proper condition for the Primaries and State and City elections were complied with. This work involves a great deal of detail, and is only accomplished by constant and close personal attention, possession of quite a number of the polling places which are rented not being given until a few hours before the time for opening the polls. For this reason I would recommend that more portable voting booths be built, and wherever practicable that the basements of the larger schoolhouses be fitted up for permanent voting places. A saving would thus be made, as the voting compartments could be stored in the buildings and the expense of cartage avoided.

CENTRAL FIRE STATION.

The question of a new Central Fire Station has been called to my attention by the City Electrician. After investigation I find that the present quarters from the point of view of both safety and convenience are wholly unsuitable for the purpose for which they are now used. I therefore agree with the recommendation of the City Electrician that a new three-story building, to cost about $40,000, be erected, the third story of which should be designed to receive the fire alarm apparatus, and the first and second for the Fire Department. The room thus made at the Brattle Square building could be used by the Police Department as detention rooms, of which it is in sore need.

CENTRAL POWER STATION.

I believe that the City would save a considerable sum annually by the erection of a central power plant on the grounds of the Rindge Manual Training School. The expense of heating and lighting the three Manual Training School buildings, the Latin School, the High School and the Public Library is very large. A central power plant could be built to supply heat, power and light to the Manual Training School buildings and light to the others.

The plant at the Manual Training School is now being worked to its full capacity and will soon have to be increased by the addition of another boiler. Therefore I think this an opportune time to consider the matter of the central station.

In addition to the advantages named above, there would be the added advantage of obtaining the room at the Manual Training School now used for the boilers, for other purposes.

INSPECTION OF BUILDINGS.

The regular inspection work of this Department has been done this year as shown in the table below.

Elevators throughout the City have been inspected in January and July, and the annual inspection of the means of egress of tenement houses, lodging houses, hotels, etc., was made in May and a report made to the Chief of the District Police.

Permits issued to operators of elevators	310
Inspections	3,989
Inspections of buildings to be moved	28
Plans rejected	3
Notices served on violators of building ordinances	62

VIOLATIONS.

Dangerous chimneys	9
Foundations defective	4
Building without a permit	7
Building too near adjoining lot	11
Conductors and gutters defective	6
Buildings in a dangerous condition	5
Furnace pipes defective	7
Miscellaneous violations	6

Number of permits granted for each month for the years 1904 and 1905: —

	1904.	1905.
December	22	18
January	13	20
February	15	14
March	45	35
April	40	56
May	56	52
June	59	50
July	51	48
August	49	42
September	31	43
October	45	53
November	47	39
Totals	473	470

	WARDS.											
	1	2	3	4	5	6	7	8	9	10	11	Totals
Additions	9	7	6	9	8	16	6	9	17	7	19	113
Alterations and repairs	6	9	9	12	6	19	9	19	11	14	10	124
Apartments and dwellings	....	2	2	3	5	5	5	5	26	8	12	73
Carriage houses	2	....	....	....	1	2	1	3	3	2	....	14
Chimneys and stacks	1	....	1	1	....	2	....	....	....	....	1	6
Dynamos, boilers, motors and engines	2	1	1	6	4	6	1	1	1	....	3	26
Factories	6	....	....	....	....	11	....	....	....	....	1	18
Heating apparatus	....	....	....	1	....	2	....	5	....	....	....	8
Razed	2	....	1	5	6	1	1	1	1	1	....	19
Stables	....	....	....	....	....	1	2	....	2	1	1	7
Schools	....	....	....	....	1	....	....	....	....	....	....	1
Stores and offices	....	....	....	1	2	2	1	....	2	1	2	11
Storehouses	2	1	2	3	2	....	2	1	....	3	2	18
Miscellaneous	7	....	2	5	3	5	1	1	2	....	6	32
Totals	37	20	24	46	38	72	29	45	65	37	57	470

COST OF BUILDINGS ERECTED IN 1905.

	Ward 1.		Ward 2.		Ward 3.		Ward 4.		Ward 5.		Ward 6.	
	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.
December	$4,000	.....	.....	.....	.....	$2,200	.....	$2,650	.....	$725	$3,000	$8,275
January	.....	$1,500	.....	$3,000	.....	100	.....	.....	$850	525	20,000	2,675
February	.....	.....	.....	175	.....	.....	$600	12,000	.....	.....	26,000	1,000
March	.....	.....	.....	1,000	$50	1,000	250	1,975	.....	2,100	50	925
April	.....	2,200	.....	2,000	.....	.....	49,000	4,200	28,500	950	50	3,700
May	3,775	.....	.....	2,725	.....	1,500	2,000	11,300	4,525	.....	108,100	2,500
June	.....	1,100	.....	1,000	.....	725	350	400	.....	1,500	120,075	400
July	6,000	4,850	$14,000	1,300	.....	175	5,200	22,025	300	600	1,000	2,975
August	1,800	16,800	.....	450	.....	950	100	525	75	1,000	5,100	2,800
September	500	1,550	.....	.....	150	750	10,100	.....	.....	2,475	10,100	1,625
October	90,000	300	1,100	4,500	4,500	1,050	.....	1,550	41,000	2,400	31,500	3,000
November	9,200	275	.....	100	5,000	725	100	750	.....	2,300	3,700	27,100
Totals	$115,275	$28,575	$15,100	$16,250	$9,700	$9,175	$67,700	$57,375	$75,250	$14,575	$328,675	$56,975

COST OF BUILDINGS ERECTED IN 1905 — *Continued.*

	Ward 7.		Ward 8.		Ward 9.		Ward 10.		Ward 11.		Totals.	
	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.	New.	Additions and Repairs.
December	.....	.....	.....	.....	.....	$300	.....	.....	$10,500	$125	$17,500	$14,275
January	.....	.....	.....	.....	$120,000	.....	$30,000	$200	.....	6,200	170,850	14,200
February	.....	$2,100	.....	$16,200	.....	.....	.....	150	.....	.....	26,600	31,625
March	.....	1,750	$25,000	7,800	200	1,600	.....	700	3,000	1,100	28,550	19,950
April	$75	925	5,625	102,050	22,900	900	38,000	1,000	30,050	3,500	174,200	121,425
May	4,025	.....	37,500	150	32,200	7,950	30,150	750	5,300	450	227,575	27,325
June	6,075	150	50	10,300	54,500	7,000	.....	1,700	14,450	19,650	195,500	43,925
July	450	6,800	19,000	15,000	4,300	5,200	1,200	1,300	100	1,000	51,550	61,225
August	.....	300	.....	1,500	26,300	600	100	150	8,900	2,600	42,375	27,675
September	12,300	475	50	21,700	975	6,300	.....	.....	.....	400	34,175	35,275
October	2,000	.....	200	2,500	26,600	300	2,500	600	3,175	4,350	202,575	20,550
November	6,500	1,300	.....	100	5,000	1,200	7,300	50	.....	275	36,800	34,175
Totals	$31,425	$13,800	$87,425	$177,300	$292,975	$31,350	$109,250	$6,600	$75,475	$39,650	$1,208,250	$451,625

Cost of building operations for previous years: —

1900	$2,266,615 00
1901	1,664,390 00
1902	2,232,365 00
1903	1,290,694 00
1904	1,964,020 00

BOARD OF EXAMINERS OF PLUMBERS.

As chairman of the Board of Examiners of Plumbers I submit the following report: —

Number of canditates examined for master plumbers license	5
Number of candidates examined for journeymen plumbers license	12
Number of master plumbers licenses granted	5
Number of journeymen plumbers licenses granted	6

INSPECTION OF PLUMBING.

Following is a detailed report of the Inspection of Plumbing Department: —

Number of applications received and permits granted	476
Number of tests and inspections	1,419
Number of jobs found defective or otherwise not in accordance with the plumbing ordinances	12
Number prosecuted for violation of the plumbing ordinances	1
Number of master plumbers holding certificates	36
Number of journeymen plumbers holding certificates	61
Number of master plumbers holding licenses	41
Number of journeymen plumbers holding licenses	56
Amount received for license fees	$38.50

In addition to the above regular work, all construction, alteration and repair work on schoolhouses and other public buildings has been regularly and carefully supervised.

In conclusion I desire to tender my sincere thanks to His Honor, the Mayor, and the Committee on Public Property for advice and support.

Respectfully submitted,

THOS. F. TRACY,
Superintendent of Public Buildings.

ANNUAL REPORT OF OVERSEERS OF POOR

1904-5

Central Square Building,
Cambridge, December 26, 1905.

To the Honorable, the City Council of the City of Cambridge: —

Gentlemen: — In submitting to your Board their twenty-eighth annual report under the Act of May 7, 1877, the Overseers of the Poor would respectfully state that there have been changes in the membership of the Board, as well as in the mode of administration.

On December 20, 1904, John R. Fairbairn, who had been chosen as an Overseer of the Poor on March 15, 1904, being unable to attend to the duties required, forwarded his resignation to the Mayor, and on December 27, 1904, the City Council selected Patrick J. Callaghan as his successor.

On March 14, 1905, the City Council assembled in convention and elected John R. McCool as an Overseer of the Poor for the term of five years in place of Francis X. Maase who had served since January 19, 1904.

The annual meeting of the Board held on the first Monday in May, as required by statute, resulted in the re-election of Patrick Crowley as chairman, David P. Muzzey as secretary, Addie Benson as clerk, Charles E. Goodrow as superintendent of the City Home, and his wife, Emma A. Goodrow, as matron, all these officers being chosen for one year, and the amount of salary also being established.

The great reduction made by the Mayor and City Council in the appropriation for Outside Aid — General Expenses — in the estimate of the Overseers of the Poor has had a most unfortunate result, and has compelled the Overseers to ask for an additional appropriation of four thousand dollars to cover the amount of bills approved by the Board. The basis upon which this reduction was made was entirely an error, and the actual result has proved the value of relying more fully upon the careful showing by the Board of the needs of that branch of the Overseers Department.

The Board desire to call attention to the success of the new hospital on the City Home grounds which was provided for by the City Council appropriation of seventeen hundred and sixty dollars, and which was opened on June 19, 1905. The superintendent in his annual report herewith submitted makes the interesting statement that thirty-one patients have

been accommodated, since the opening, which would have cost the City ten dollars per week each if cared for at an outside hospital. Some of these patients, as soon as able, have reimbursed the City for the cost of their treatment. The superintendent, matron and City Physician, as well as their assistants, have rendered excellent service in the care of the sick poor at the hospital. The need of the institution has been made manifest in its decided beneficial results.

The office relief given to applicants for aid has increased to a large extent owing to the great number of families who have been left to want by fathers and husbands who have deserted them, or who have been sentenced to the House of Correction for intemperance and other causes. Careful investigation has been made where aid has been sought, and an endeavor made to protect the taxpayers of the City from unnecessary expense and also, at the same time, using care to prevent suffering among the deserving poor.

Inasmuch as the City is yearly increasing in population it becomes a necessity that more relief must be given to the pauper class whose condition is caused partly by unfortunate habits of intemperance which result in misery, and partly by the parents being unable to obtain work. An increased cost also in the price of household goods, in rents, and in other directions, afford an additional reason why so many cannot provide for themselves and are dependent upon aid from the City.

The list of annual estimates as prepared by the Board, was sent to the City Council on January 11, 1905, as follows : —

Outside Aid . .	salaries,	$2,755 00	general expenses, $24,355 00	$27,110 00
City Home . .	"	7,740 00	" " 12,800 00	20,540 00
Farm . . .	labor,	4,340 00	supplies, 985 00	5,325 00
House Offal . .	"	28,359 00	general expenses, 7,775 00	36,134 00
				$89,109 00
Proposed Hospital . .	general expenses,	$1,030 00	wages, $720 00	$1,750 00

The following appropriations were actually made by the City Council : —

Outside Aid . .	salaries,	$2,755 00	general expenses, $14,000 00	$16,755 00
City Home . .	"	7,740 00	" " 12,000 00	19,740 00
Farm . .	labor,	4,200 00	supplies, 800 00	5,000 00
House Offal . .	"	27,500 00	general expenses, 6,500 00	34,000 00
				$75,495 00
City Home Hospital				$1,750 00

Transfers were made by the City Council in November, as follows : —

From City Farm — labor to supplies	$75 00
From House Offal — labor to general expenses	200 00
From House Offal — labor to City Home — general expenses . .	250 00

The following were the actual amounts, in bills approved, for the year: —

Outside Aid	salaries, $2,755 00	general expenses, $18,347 14	$21,102 14
City Home	" 7,736 76	" " 12,250 00	19,986 76
Farm	labor, 4,102 78	supplies, 874 91	4,977 69
House Offal	" 26,936 62	general expenses, 6,698 38	33,635 00
			$79,701 59
City Home Hospital			$1,748 72

The following estimates for revenue were made by the Overseers of the Poor on January 11, 1905: —

Outside Aid	$2,000 00
City Home	800 00
Farm	4,500 00
House Offal	1,100 00
	$18,300 00

The following was the actual revenue during the year: —

Outside Aid	$1,399 37
City Home	967 69
Farm	4,963 83
House Offal	11,326 61
	$18,763 00
City Home Hospital	$105 50

The actual comparative net cost each year during the past five years has been as follows: —

	1901	1902	1903	1904	1905
Outside Aid	$46,009 95	$39,006 97	$40,671 41	$23,023 02	$19,702 77
City Home	21,557 52	18,056 21	18,090 80	18,254 10	19,019 07
Farm	Net gain, 180 92	168 53	1,089 77	670 78	13 86
House Offal	19,598 78	18,596 97	20,488 02	19,281 89	22,308 39
Total	$86,985 33	$75,828 68	$80,340 00	$61,229 79	$61,044 09

During the year the number of persons at institutions for whom the City has been liable is as follows: —

City Home	198
State Hospital for Epileptics, Monson	5
State Hospital for Dipsomaniacs	10
Massachusetts School for Feeble Minded	20
Taunton Hospital, inebriate woman	1
State Farm, Bridgewater	1
Cambridge Hospital	9
Carney Hospital	9
Boston City Hospital	63
Massachusetts General Hospital	1
State Hospital, Tewksbury	32
Sherman Hospital for Incurables	2
Boston Almshouse, Long Island	5
Worcester City Hospital	1
Baldwinville Hospital Cottages	1

There have been 450 histories, 13,722 to 14,172, taken of new applicants for relief, consisting of 1,350 persons,— 626 males, 724 females — 352 adults and 998 minors.

The City Physician has made 1,434 visits upon 118 patients at the City Home, and he has also made 1,050 visits upon 546 patients outside of the institution. There has been paid from the Overseers of the Poor appropriation $325.71 for outside medicine and $401.27 for City Home medicine, $17.65 has been paid for Outside Aid surgical appliances and $13.25 at the City Home, $61.00 has been paid for outside additional service.

There were 11 deaths at the City Home during the year, 17 sick persons were sent to the hospitals, 19 persons have received burial in the Cambridge Cemetery on Outside Aid account, at an expense of $92.55, and 6 persons on City Home account, at an expense of $36.90 for undertakers services and interment. At the City Home the oldest person to die was a woman of 80 years who died of debility and paralysis, and the youngest was a man of 29 years who died of meningitis.

There have been 198 inmates in the City Home during the year and there remained 104 persons on November 30, 1905, the average being 94 during the year.

There have been 245 families, 735 persons aided from the office of the Board during the past year.

RECAPITULATION.

Total expenditures for Outside Aid, City Home, Farm, Hospital	$47,815 31
Receipts for same	7,436 39
Net cost of care of poor	$40,378 92

Respectfully submitted,

PATRICK CROWLEY,
HENRY H. WINSLOW,
JAMES F. MULLEN,
PATRICK J. CALLAGHAN,
JOHN R. McCOOL,
Overseers of the Poor of Cambridge.

REPORT OF THE SUPERINTENDENT OF THE CAMBRIDGE CITY HOME

CAMBRIDGE, December 1, 1905.

To the Overseers of the Poor:—

GENTLEMEN:—The annual report of the Cambridge City Home for the year ending November 30, 1905, is herewith respectfully submitted.

The whole number in the Home during the year has been as follows:—

Males	114
Females	84
Total	198
Adults	188
Minors	10
Whole number in the House November 30, 1905	104
Average number during the year	94

Included in the whole number in the Home, November 30, 1905, there are:—

IDIOTIC OR IMBECILE.

Males	0
Females	1
Total	1

BLIND.

Males	0
Females	1
Total	1

EPILEPTIC.

Males	2
Females	1
Total	3

Included in the whole number discharged during the year, and six persons sent to other institutions, as follows:—

Holy Ghost Hospital	1
State Hospital	2
State Home	2
Cambridge Hospital	1

Remaining in Home November 30, 1905:—

Males	55
Females	49
Adults	101
Minors	3

All statistics of general interest will be exhibited by the following tables: —

TABLE I.

Showing the number and sex of adult persons and minors of all classes received into the Cambridge City Home in each month of the year ending November 30, 1905.

Months.	Adults.		Minors.		Total.	Dependent Children.		Neglected Children.	
	M.	F.	M.	F.		M.	F.	M.	F.
1904									
December	5	2	0	0	7	0	0	0	0
1905									
January	4	3	0	0	7	0	0	0	0
February	3	3	0	0	6	0	0	0	0
March	2	2	0	0	4	0	0	0	0
April	2	2	0	0	4	0	0	0	0
May	2	2	0	0	4	0	0	0	0
June	5	1	0	0	6	0	0	0	0
July	6	4	0	0	10	0	0	0	0
August	3	5	1	1	10	0	0	1	1
September	10	7	0	2	19	0	2	0	0
October	12	8	1	1	22	1	1	0	0
November	6	1	2	1	10	2	1	0	0
Totals	60	40	4	5	109	3	4	1	1

TABLE II.

Showing the number and sex of adult persons and minors of all classes discharged from the Cambridge City Home in each month of year ending November 30, 1905.

Months.	Adults.		Minors.		Total.	Dependent Children.		Neglected Children.	
	M.	F.	M.	F.		M.	F.	M.	F.
1904									
December	3	0	0	0	3	0	0	0	0
1905									
January	5	1	0	0	6	0	0	0	0
February	1	1	0	0	2	0	0	0	0
March	2	2	1	0	5	1	0	0	0
April	5	2	0	0	7	0	0	0	0
May	7	1	0	0	8	0	0	0	0
June	8	2	0	0	10	0	0	0	0
July	6	4	0	0	10	0	0	0	0
August	5	4	1	0	10	0	0	1	0
September	3	4	0	1	8	0	0	0	1
October	9	4	0	3	16	0	3	0	0
November	2	6	1	0	9	1	0	0	0
Totals	56	31	3	4	94	2	3	1	1

TABLE III.

Showing the name, age, date of admission, date and cause of death of each person who has died in the Cambridge City Home during the year ending November 30, 1905.

Name.	Age.	Date of Admission.	Date of Death.	Cause of Death.
Ann J. Carter	80	Nov. 18, 1881	Jan. 9, 1905	Debility and Paralysis.
Edmund F. Foss	39	April 27, 1904	Jan. 10, 1905	Paralysis.
John H. Corcoran	59	Mar. 4, 1899	Jan. 10, 1905	General Debility.
James Reed	76	June 13, 1903	Jan. 13, 1905	General Debility.
Mary Lyons	82	July 3, 1901	Feb. 13, 1905	Dysentery and Debility.
William Durnan	64	Oct 1, 1904	Mar. 16, 1905	Abscess of the Lung.
Patrick H. McElroy	41	Sept. 1, 1904	April 17, 1905	Heart Failure.
Alex. Sutherland	60	Feb. 18, 1905	June 17, 1905	Paralysis.
Jos. F. Cushman	29	June 20, 1905	June 24, 1905	Meningitis.
James Hennessey	42	Dec. 11, 1903	July 12, 1905	General Debility.
Annie O'Neil	48	July 11, 1905	July 12, 1905	Diarrhœa.
Cornelius Kilburn	71	April 7, 1896	Aug. 21, 1905	General Debility.
Abraham Cross	80	Sept. 9, 1905	Sept. 10, 1905	Paralysis.
Sarah A. Jenness	49	Sept. 19, 1905	Sept. 30, 1905	Uterine Cancer.
Albert G. Gabriel	37	Aug. 29, 1905	Oct. 10, 1905	Pernicious Anæmia.

PRODUCTS OF THE FARM AND THEIR APPROXIMATE VALUES.

358	bushels string beans	$226 70
9,600	bunches beets	136 00
277	bushels beets	220 60
224	bushels beet greens	19 55
14,625	cabbages	454 20
19,623	cucumbers	227 00
953	bushels dandelions	501 90
1,598	dozen lettuce	180 90
65	bushels peppers	25 00
21,478	lbs. pork	1,127 52
1,075	dozen celery	1,050 00
221	bushels rhubarb	50 88
40	bushels radishes	8 20
245	bushels spinach	25 40
120	bbls. squash	84 00
1,224	bushels tomatoes	712 00
2,036	bunches carrots	32 45
97	bushels carrots	42 25
24	bushels peas	18 00
15	bushels parsley	5 30
25	bushels corn	20 00
300	bushels onions	250 00
1	ton hay	15 00
400	dozen eggs	120 00
150	bunches asparagus	15 00
400	bushels parsnips	300 00
130	cords manure	390 00
	Total	$6,257 85

The results from the Farm the past year have been very satisfactory.

Cash receipts	$4,964 10

PRODUCTS ON HAND DECEMBER 1, 1905.

20 pigs	$60 00
100 boxes celery	400 00
2,500 cabbages	75 00
120 cords manure	360 00
400 bushels parsnips	250 00
100 bushels beets	60 00
250 bushels onions	185 00
	$6,354 10
Less expenses	4,977 69
	$1,376 41
Vegetables supplied Home one year to December 1, 1905	270 00
Eggs supplied Home one year to December 1, 1905	120 00
Value produced above cost	$1,766 41
Cash Receipts, 1905 $4,964 10	
Cash Receipts, 1904 4,286 47	
Increase $677 63	

COMPARATIVE TABLE OF CITY HOME, FARM, LEDGE AND HOUSE OFFAL RECEIPTS FOR TWENTY-FIVE YEARS ENDING NOVEMBER 30, 1905.

Years.	Board.	Chair Shop.	Farm.	General Sales.	Stone.	House Offal.	Totals.
1881	$322 56		$378 50		$2,529 01	$5,536 88	$8,766 95
1882	705 34		436 54		2,626 17	5,705 22	9,473 27
1883	1,174 96		476 22	$14 19	2,622 00	5,819 55	10,106 92
1884	1,480 93		316 76		4,238 77	6,449 96	12,486 42
1885	2,035 58		335 32	149 85	4,509 84	7,354 26	14,384 95
1886	613 93	$37 50	772 14	319 75	5,611 38	6,926 23	14,280 93
1887	514 64	634 19	1,595 10	241 37	4,684 14	6,856 59	14,526 03
1888	557 28	614 94	2,846 52	213 62	6,662 26	6,721 50	17,617 86
1889	274 84	479 28	3,684 59	144 36	5,564 18	7,324 61	17,471 06
1890	302 49	794 36	4,364 03	150 89	5,651 38	7,386 33	18,649 48
1891	1,201 33	844 62	5,213 68	161 71	6,107 86	7,716 77	21,245 97
1892	1,253 06	899 81	5,371 60	166 45	5,220 50	7,535 57	20,447 55
1893	703 70	325 86	6,400 64	210 09	5,826 74	7,033 52	20,500 05
1894	1,094 89	220 07	6,504 66	615 69	7,955 42	8,218 96	24,609 69
1895	622 77	77 00	6,512 63	160 19	8,265 14	9,045 55	24,682 78
1896	834 52	61 25	5,623 67	147 02	7,639 48	9,155 35	23,461 24
1897	1,294 65	3 60	5,348 47	137 33	10,335 16	7,228 79	24,348 06
1898	1,038 19		5,730 13	277 40	2,172 60	7,264 09	16,482 41
1899	703 17		6,049 47	142 54		6,997 40	13,892 58
1900	611 57		5,082 43	137 40		7,322 05	13,153 45
1901	793 32		5,173 83	83 60		8,016 71	14,067 46
1902	826 69		5,098 37	78 15		9,722 83	15,726 04
1903	659 21		3,922 64	526 43		10,359 99	15,468 27
1904	969 54		4,286 47	69 47		11,729 75	17,055 23
1905	902 30		4,964 10	65 39		11,326 61	17,258 40
Totals	$21,491 46	$4,992 48	$96,488 51	$4,212 39	$98,222 03	$194,755 07	$420,162 40

City Home Hospital Receipts $105 50

Of the persons who died during the year three were between eighty and ninety, two between seventy and eighty, two between sixty and seventy, one between fifty and sixty, four between forty and fifty, two between thirty and forty, and one between twenty and thirty.

The average age of those who died was fifty-seven.

The City Home Hospital, for which seventeen hundred and fifty dollars was appropriated by the City Council, was opened June 19th, since which time thirty-one patients have been accommodated. These patients would have cost the City ten dollars per week each had they been cared for outside, which clearly shows that it is profitable to maintain it. The cost of maintenance will not be great hereafter, as it is fairly well equipped at present.

The collections of offal were not as large as last year, consequently the receipts were not as great, but this is more than offset by an increase of nearly seven hundred dollars in farm receipts over last year. The total receipts of the different departments at the City Home are larger than any year since 1897, when the ledge was worked.

During the year new flooring has been laid in the stable and offal sheds. The farm house has been painted, new windows put in, and a concrete washstand has been built. The Hospital, together with all the wooden buildings connected with the City Home, have been given two coats of paint.

I wish to extend thanks to the Metamone Club, of North Cambridge, Dr. W. G. Brousseau and his associates, and Mrs. Carrie M. Walker, for the entertainments furnished the inmates during the year.

I thank your honorable Board for the consideration shown me, and also thank the officers and employees in the several departments under my care for their faithfulness and efficiency.

Respectfully submitted,

CHARLES E. GOODROW,

Superintendent.

REPORT OF THE CITY PHYSICIAN

1904-1905

CAMBRIDGE, MASS., November 30, 1905.

To the Honorable, the City Council of the City of Cambridge:—

GENTLEMEN:—In accordance with the requirements of Chapter 45 of the revised ordinances of 1892, a report of the doings of this office for the year ending November 30, 1905, is hereby rendered:—

CITY HOME.

Number of visits to the City Home	312
Number of persons attended there	118
Number of professional visits to the same	1,434
Number of births at City Home	1
Number of deaths at City Home	11
Cost of medicines and surgical appliances	$415 52

OUTSIDE AID.

Number of persons attended for Overseers of Poor	546
Number of professional visits to the same	1,050
Number of persons sent to hospitals for treatment	17
Number of outside deaths	7
Medicines and surgical appliances	$404 36

DEPARTMENTAL SERVICE AND TOTALS.

Number of persons visited at police stations	64
Number of visits to same	87
Number of persons examined for the Law Department	5
Number of employees examined for injuries received	37
Number of visits to same	75
Number of vaccinations for the School Committee	187
Number of civil service examinations	48
Number of call men examined at the request of the Mayor	26
Number of examinations of policemen for retirement	0
Total number of persons receiving professional care	1,075
Total number of professional visits to the same	2,646

CITY HOME HOSPITAL REPORT FOR THE YEAR ENDING NOVEMBER 30, 1905.

The hospital was opened June 30, 1905, and patients were admitted as follows:—

One patient, June 20, died June 24	Alcoholic meningitis.
One patient, June 22, discharged July 31	Erythema.
One patient, June 24, discharged Aug. 7	Loose cartilage in knee.
One patient, July 6, transferred to City Home Oct. 9	Paralysis.
One patient, July 11, died July 12	Enteritis.
One patient, July 24, discharged Aug. 8	Paralysis.
One patient, Aug 3, discharged Aug. 14	Enteritis.
One patient, Aug. 3, died Aug. 8	Appendicitis.

One patient, Aug.	15, discharged Aug. 23	Salpingitis.
One patient, Aug.	27, discharged Sept. 4	Miscarriage.
One patient, Aug.	29, discharged Sept. 21	Seborrhoea.
One patient, Sept.	2, discharged Oct. 22	Appendicitis.
One patient, Sept.	8, discharged Oct. 29	Typhoid fever.
One patient, Sept.	4, discharged Sept. 16	Arthritis.
One patient, Sept.	9, died Sept. 10	Paralysis.
One patient, Sept.	14, discharged Oct. 4	Nephritis.
One patient, Sept.	15, discharged Oct. 2	Empyema.
One patient, Sept	16, discharged Nov. 12	Typhoid fever.
One patient, Sept.	19, died Sept. 30	Carcinoma of the uterus.
One patient, Oct.	7, discharged Nov. 9	Erythema.
One patient, Oct.	9, discharged Oct. 18	Pneumonia.
One patient, Oct.	14, discharged Nov. 19	Typhoid fever.
One patient, Oct.	14, discharged Oct. 29	Pneumonia.
One patient, Oct.	14, discharged Nov. 12	Typhoid fever.
One patient, Nov.	4	Typhoid fever.
One patient, Nov.	4	Typhoid fever.
One patient, Nov.	14	Typhoid fever.
One patient, Nov.	21	Potts disease of spine.

Making twenty-eight patients for a period of 626 days, or 89½ weeks, averaging three weeks to a patient, and reckoned at the usual hospital rate of $10.00 a week, amounts to $895.00.

The following paying patients were admitted to the hospital: —

One patient, June	25, discharged July 17	Instrumental confinement.
One patient, July	4, still at hospital	Ascites.
One patient, July	24, discharged Sept. 13	Pneumonia.
One patient, July	26, discharged July 31	Enucleation of one eye.
One patient, July	27, discharged July 28	Gastritis.

Making five paying patients at the hospital for a period of 178 days, or 25½ weeks, with an average revenue of about $4.50 per week.

Expenses of opening and permanent improvements and additions	$1,125 00
Running expenses	625 00
	$1,750 00
Revenue from paying patients	105 50
Net expenses	$1,664 50

At the present time the hospital is fairly well equipped, but there are still many things that are necessary. Nevertheless, I feel quite pleased with the showing we have made. If we had had more room we could have accommodated more patients. Next year as the hospital becomes better known the showing made will be better.

I wish to thank the Superintendent of the City Home for his kindness and material help, and also the other members of the office for their many courtesies shown me during the year.

Respectfully yours,

WILLIAM G. BROUSSEAU, M. D.,
City Physician.

REPORT OF THE TRUSTEES OF THE DOWSE INSTITUTE

CAMBRIDGE, December 1, 1905.

To the Honorable, the City Council: —

The Board of Trustees of the Dowse Institute respectfully reports that a course of six free lectures, one reading and one entertainment was given in Durrell Hall, beginning January 3 and ending February 21, 1905.

An attested copy of the accounts of the Treasurer is herewith submitted showing the amounts of receipts and expenditures.

FRANK A. ALLEN,
W. A. BULLARD,
GEO. HOWLAND COX,
Board of Trustees.

W. A. BULLARD, TREASURER IN ACCOUNT WITH DOWSE INSTITUTE.

Dr.

1904.	
To balance	$104 50
City of Cambridge, interest on fund one year	600 00
Int. on deposits	3 46
	$707 96

Cr.

1905.	
By Cambridge Chronicle, advertising	$10 00
Cambridge Tribune, advertising	10 00
W. J. Hyner, printing	9 50
Ushers and doorkeepers	28 00
Hall rent	200 00
Use of stereopticon	5 00
H. L. Southwick, reading	50 00
A. F. Kempton, Lecture	35 00
Geo. F. Moore, lecture	35 00
Parker H. Kemble, lecture	35 00
W. J. H. Nourse, lecture	40 00
G. H. Parker, lecture	40 00
E. H. Forbes, lecture	50 00
The Floyds, entertainment	50 00
Balance	110 46
	$707 96

ATTEST: W. A. BULLARD,
Treasurer.

Audited:
GEO. HOWLAND COX.

REPORT OF THE BOARD OF HEALTH

To the Honorable, the City Council: —

In compliance with the Revised Laws creating Boards of Health and defining their duties, we have the honor to make our annual report for the year ending December 31, 1905.

We respectfully call the attention of your honorable body to the following list of complaints investigated and nuisances abated during the year: —

NUISANCES ABATED.

Full, overflowing and offensive privy vaults	7
Offensive and defective water-closets	116
Full and defective cesspools and catch-basins	12
No traps to sinks	9
Leaky and defective traps	32
Defective drainage, open and defective drains	13
Plumbing tests made	33
Filthy yards	257
Filthy stables and cow sheds	49
Manure in yards and lots	22
Wet and damp cellars	21
Stagnant water on premises	11
Dead animals on premises	4
Dead hens on premises	9
Filthy buildings	101
Filthy cellars	39
New water-closets put in	42
Houses vacated	3
Dirty hen-coops	18
Miscellaneous	4
Total	802
Number of inspections	7,191
Number of subsequent inspections	5,246
Total	12,437
Number of notices served	258
Slop-closets and sluice-vaults abated	8
Offal receptacles cleaned and new ones provided	24
Vacant lots cleaned	5
Defective plumbing in whole house remedied	39
Privy vaults abated	15
Cesspools abated	16
Number of houses placarded	502
Premises disinfected	621
Number of cellars from which hens were removed	5
Number of patients taken to the Diphtheria Hospital	123
Number of patients taken to the Cambridge Hospital	38

MEDICAL INSPECTION OF SCHOOLS.

The diseases discovered in the schools and the number of cases are as follows: —

Chicken-pox	7
Measles	9
Mumps	18
Scarlet fever	1
Whooping-cough	10
Pediculosis	105
Diseases of ear	9
Diseases of eye	75
Diseases of skin	137
Diseases of nervous system	5
All other diseases	174
Total	550

DIPHTHERIA HOSPITAL.

January 1, 1905, there were in the hospital 8 cases remaining from the previous year. From January 1 to December 31, 1905, inclusive, there were admitted 124 cases. Of laryngeal diphtheria there were 24 cases, and 4 deaths; a fatality of 16.66 per cent. Of the ordinary form there were 83 cases, and 6 deaths; a fatality of 7.22 per cent. Of both forms combined the fatality was 9.34 per cent. On December 31, 1905, there were remaining in hospital 10 cases.

The stay in hospital and the termination of the illness of these cases (bacterially diphtheria) were as follows: —

Days.	Recovered.	Died.	Total Days.	Days.	Recovered.	Died.	Total Days.
Under 1	..	5	2½	25	5	..	125
1	..	1	1	26	4	..	104
3	1	..	3	27	4	..	108
4	..	1	4	28	1	..	28
5	1	..	5	29	3	..	87
7	1	1	14	30	1	..	30
8	..	1	8	31	2	..	62
9	1	..	9	32	4	..	128
10	3	..	30	33	1	..	33
11	1	..	11	34	4	..	136
12	2	1	36	37	3	..	111
13	2	.	26	39	3	..	117
14	3	..	42	40	2	..	80
15	4	..	60	41	1	..	41
16	7	..	112	42	1	..	42
17	5	..	85	47	1	..	47
18	4	..	72	53	1	..	53
19	2	..	38	56	1	..	56
20	1	..	20	74	1	..	74
21	5	..	105	105	1	..	105
22	1	..	22				
23	3	..	69	Total..	97	10	2,485½
24	6	..	144				

There were also admitted 15 cases, all of whose cultures taken for diagnosis proved negative. Of these patients 3 had the laryngeal form of the disease; and 2 proved to be cases of scarlet fever, and were transferred to the Cambridge Hospital.

The stay in hospital and termination of the illness were as follows:—

Days.	Recovered.	Died.	Total Days.	Days.	Recovered.	Died.	Total Days.
Under 1	..	1	1-6	10	1	..	10
1	1	..	1	11	1	..	11
2	1	..	2	13	1	..	13
4	1	..	4	15	2	..	30
5	1	..	5	29	1	..	29
7	3	..	21				
8	1	..	8		14	1	134 1-6

We feel that the City should have a modern hospital for the care and treatment of infectious diseases, such as diphtheria, scarlet fever, measles and typhoid fever. There should also be a hospital for the care and treatment of persons suffering with tuberculosis of the lungs, a disease commonly known as consumption. We believe that proper hospitals for the care of infectious diseases, is one of the best methods for the prevention thereof. In a well regulated hospital for infectious cases, the infection is not likely to be carried into other parts of the same neighborhood; yet, as a matter of precaution, such hospitals should be isolated as far as practicable. We have now some buildings, formerly dwellings, which were used during the small-pox epidemic. It is our opinion that these buildings should be destroyed as they are unfit for habitation, and that an inexpensive wooden structure be built at the same location, for small-pox cases, to be destroyed after a small-pox epidemic, and a new building of a similar type constructed. This is in accord with the latest scientific ideas. This small-pox hospital should be isolated as much as possible.

This Board has given much time and thought to secure better ventilated street cars. Several years ago we passed a regulation for proper ventilation of cars. This Board was powerless to direct any specific method of ventilation. This year we took steps to have the railroad commissioners given authority to investigate the manner of ventilating street cars, with power to adopt any method they deemed expedient. A bill to this effect was presented to the legislature. This bill was approved by the Boards of Health of the following cities and towns: Haverhill, Chelsea, Fall River, Somerville, Newton, Lynn, Revere, Quincy, Lawrence, New Bedford, Taunton, Everett, Belmont, Salem and Worcester.

The idea was to give the commissioners the power to order a specific method of ventilation, which power the local Boards do not possess. It was admitted that better ventilation was necessary; but it was contended that the railroad commissioners could secure better ventilation without the passage of this bill. The commissioners now have power to make regulations as to the number of passengers in cars, but have no authority in regard to ventilation.

The purpose was to secure a system, whereby the impure air would be drawn off, thereby creating a vacuum, causing the pure air to enter from the rear of the car, doing away with all draughts. The street railway corporations opposed the passage of this bill; it failed of passage. The Board proposes to renew its efforts to secure better ventilation, because it feels that thereby, the spread of infection would be prevented; and the vitality of passengers would not be weakened by riding in improperly ventilated cars.

On the various dumps throughout the City, paper and other waste material have been burned, to the great annoyance and discomfort of the people living in the vicinity, as large volumes of smoke were carried into the homes. There was a dump located on Brookline Street, and the burning of waste material there, by the Superintendent of Streets, became such a nuisance, that the Board ordered such burning to cease. We feel that there should be an incinerator, located in some isolated section of the City, where this rubbish could be burned.

From time to time the Water Board has deemed it necessary to clean the bottom of the several basins at the Payson Park reservoir; for this purpose, there is a pipe running from the reservoir which empties into what is called Cider Mill Pond. This causes a nuisance in this pond, and creates a condition which may result in disease. There has been much complaint from the drainage emptying into this pond. We recommend that this pipe be connected with the sewer.

There have been many complaints in regard to the condition of the clay pit on Sherman Street in North Cambridge. This pit is filled with water. There has been rubbish, decayed matter, and such like, on the surface of the water, creating a nuisance. This has been cleaned. This water collected there is likely to be a breeding place for mosquitoes, which may become the agent for the carrying of infection. We recommend that the City make some arrangement with the owner of this pit to have the same filled in.

This Board has directed the Sanitary Inspectors to make a report upon the sanitary condition of all stables in the City. Many of the old stables were built when there was little or no requirement in regard to sanitation. Where it was expedient, we have directed that the older

stables be put in sanitary condition in accordance with the requirements of this Board. We feel much good will result therefrom.

It has been the policy of this Board to order the abatement of all cesspools and privy vaults, where there could be proper sewer connection. There were quite a number of privy vaults along the water front. We have declared these nuisances and have abated most of them. Some few have not been abated because it was inexpedient. When the improvements now in progress are made, the remaining vaults will be abated.

We feel that it is of vital importance to the health of the community that sewers should be laid in all streets where there are dwellings. Privy vaults and cesspools could then be abated.

We recommend that the building ordinances be amended so as to provide that all water-closets be ventilated by a vent. At the present time a discretion is given to the Superintendent of Buildings regarding this matter. This should be mandatory in all cases.

There is a sewer in North Cambridge which enters Tannery Brook. The sewage then flows along and enters Alewife Brook. This condition constitutes a nuisance, and may be a source of sickness. It is a menace to the health of the neighborhood, and should be remedied without delay.

When infection breaks out in a community, the city must bear the greater part of the burden. Much disease can be prevented if necessary precautions are taken. We feel that it would be well to do whatever is feasible towards educating the people regarding the laws of health. Pure air is a food, and if the homes are properly ventilated, much disease will be prevented. Dirt, filth, and uncleanliness are important factors in the spread of disease. Some general rules should be laid down in regard to the laws of health, and instruction given regarding the manner of preventing the spread of infection. We are of opinion that it would be well to have our Medical Inspector prepare a pamphlet along the lines suggested and deliver a copy to each householder throughout the City. We believe that much disease, and the spread thereof, is caused by a lack of knowledge. The function of a public health board is to prevent disease.

CHARLES T. WEEKS, M. D.,
JOHN J. SCOTT,

Board of Health of City of Cambridge.

BACTERIOLOGICAL LABORATORY,

CAMBRIDGE, March 1, 1905.

To the Board of Health: —

GENTLEMEN: — I respectfully submit the following report of the work done in the laboratory from January 1 to March 1, 1905: —

	Jan.	Feb.	Total.
Positive cultures for diagnosis of diphtheria	6	12	18
Negative cultures for diagnosis of diphtheria	38	20	58
No growth cultures for diagnosis of diphtheria	0	0	0
Positive cultures for release	11	10	21
Negative cultures for release	29	20	49
No growth cultures for release	0	0	0
Sputa examinations for the bacilli of tuberculosis	26	25	51
Blood examinations for the Widal reaction of typhoid fever	13	9	22
Totals	123	96	219

Cultures were submitted for diagnosis and confirmed in 66 per cent. of the cases of diphtheria reported from January 1 to March 1, 1905. During these months there were but 27 cases of diphtheria reported to the Board of Health.

Fifty-one sputa were examined for the bacilli of tuberculosis, 15 proving positive and 36 negative.

Of 22 samples of blood examined for the Widal reaction of typhoid fever 3 gave a positive reaction and 19 a negative one. But 4 cases of typhoid fever were reported to the Board of Health during the months of January and February.

J. R. SENNOTT, M. D.

BACTERIOLOGICAL LABORATORY,
CITY HALL, CAMBRIDGE, January 1, 1906.

To the Board of Health: —

GENTLEMEN: — Below is a report of the work done in the laboratory for the nine months beginning March 1, and ending December 31, 1905.

In March we sent out new sputum outfits, consisting of a square pasteboard box, containing a labeled bottle, with wide mouth, in which are a few drachms of 5 per cent. carbolic acid. A smaller and more serviceable test-tube has been adopted for the diphtheria outfits, and the boxes for these outfits were recently changed from those open at both ends to a form which is closed on three sides, obviating the danger of dropping the box and tubes while holding the cover. At the same time the dimensions of the boxes were reduced, making them less bulky and more easily carried in the pocket.

In reporting cultures where atypical bacilli occur, the custom of most municipal laboratories has been followed in giving the physician merely the facts, rather than making a positive or negative diagnosis. In these cases further cultures are always asked for, and they usually serve to make the diagnosis definite. The percentage of such cultures is very small and the method gives accurate, if not always comforting, information to the physician.

Twice during the nine months the report of "no growth" ran high due to defects in the serum, yet the percentage of "no growths" for the whole nine months is not above the average for such work.

The "other examinations" mentioned below include a few for paratyphoid, malaria and bacteria in pus.

Stock cultures of paratyphoid A and B have been kept on hand, but the demand for such examinations is infrequent.

It is to be hoped that better laboratory facilities may be obtained soon, and that some provision may be made for cleaning the laboratory at regular intervals. The size of the present quarters is entirely inadequate for the work of this laboratory combined with that of the Inspector of Milk and Vinegar. A new incubator is needed and a machine for shaking sputum such as devised by Mr. Rickards of the Boston Board of Health Laboratory would add to the efficiency of that particular sort of work.

DIPHTHERIA.

	Positive.		Negative.		Total.		Total.			Grand Total.
	Diagnosis.	Release.	Diagnosis.	Release.	Diagnosis.	Release.	Diagnosis.	Release.	No growth.	
March	6	2	26	17	32	19	8	43	3	54
April	18	12	29	17	47	29	30	46	2	78
May	52	59	70	85	122	144	111	155	6	272
June	20	24	61	65	81	89	44	126	8	178
July	14	9	18	28	32	37	23	46	1	70
August	7	3	11	19	18	22	10	30	.....	40
September	23	11	22	25	45	36	34	47	1	82
October	25	20	18	32	43	52	45	50	.....	95
November	35	53	67	55	102	108	88	122	2	212
December	34	30	65	67	99	97	64	132	.....	196
Total	234	223	387	410	621	633	457	797	23	1,277

	TUBERCULOSIS.			TYPHOID.			Other Examinations.	Grand total.
	Positive.	Negative.	Total.	Positive.	Negative.	Total.		
March	7	22	29	1	20	21	.....	50
April	10	27	37	.....	9	9	2	48
May	8	32	40	.....	12	12	.....	52
June	7	21	28	.....	13	13	.....	41
July	9	9	18	.....	8	8	.....	26
August	6	6	12	3	24	27	1	40
September	9	15	24	21	30	51	1	76
October	6	12	18	16	17	33	.....	51
November	9	18	27	4	34	38	.....	65
December	6	19	25	.....	14	14	.....	39
Total	77 29.8 p.c.	181	258	45 19.9 p c.	181	226	4	488

Total examinations for nine months 1,765

Respectfully submitted,

ALLAN F. BARNES, M. D.,
Bacteriologist.

To the Honorable, the Board of Health : —

The undersigned respectfully submits his report as Inspector of Provisions, the same being for the year ending December 31, 1905.

The Inspector is pleased to report that the general condition of stores throughout the City, with reference to the manner of exposing for sale and keeping of meats and provisions, is good, a decided improvement having taken place since the last report.

The slaughter houses throughout the City have been conducted in a proper manner and with strict attention to all the rules of the Board. Slaughter houses are licensed to slaughter three days in the week; there is one large poulty slaughter house which is licensed to slaughter on six days in the week.

During the past year complaints have been entered in court against four persons who have been convicted for selling tainted food. Two of the defendants were fined $20.00 each, and two were fined $5.00 each.

Complaints are being constantly received about the condition of canned and bottled goods, and from the nature of the complaints it would seem advisable to secure some legislation which will enable an analysis of these goods to be made. Under the present conditions, the Board of Health has no means of obtaining analytic results except by specially employing some expert. Some such method would be to have the work performed under the immediate direction and control of the Board of Health, and I would recommend to your honorable body a favorable consideration for this matter.

For your information as to the work performed by the Inspector during the past year, I respectfully submit the following statistical matter : —

Slaughter Houses — Animals Killed.

Cows	19,876 pounds
Calves	32,427 "
Sheep	674 "
Hogs	2,326 "
Fowl	2,839 "

Animals Condemned.

Cows	3,226 pounds
Calves	9,231 "
Hogs	723 "
Sheep	72 "

Of the foregoing animals condemned, two of the cows were found infected with septicaemia, and four with tuberculosis. Four hogs were condemned on account of tuberculosis. The sheep showed symptoms of pleuro-pneumonia, and the calves were immature.

The inspection of the stores and goods sold therein resulted in the condemnation of the following supplies : —

MEATS.

Beef	3,241	pounds.
Venison	277	"
Veal (immature)	527	"
Game and poultry	3,272	"

8 livers and 37 rabbits were also condemned.

FISH.

Haddock, cod and salmon	5,396	pounds.
Oysters	8	gallons.
Clams	4	"
Lobsters	427	pounds.

VEGETABLES.

Potatoes	12	bushels.
Beets	1½	"
Tomatoes	8	"
Tomatoes (canned)	12½	dozen.
Beans (green)	13	bushels.
Turnips	16	barrels.
Carrots	4	bushels.
Onions	14	"
Cabbage	3	barrels.
Squash	6	"
Corn (green)	9	bushels.
Lettuce	6	"
Asparagus	2	"
Pickles	1½	barrels.

There were also condemned 42 dozen of eggs.

FRUIT.

Apples	13	barrels.
Grapes (Malaga)	3	"
Grapes	327	baskets.
Melons (canteloupe)	32	crates.
Strawberries	62	"
Raspberries	18	"
Blackberries	9	"
Cherries	5	"
Currants	3	"
Pears	13	bushels.
Peaches	21	baskets.
Oranges	3	boxes.
Lemons	6	"
Pineapples	326	
Cranberries	7	bushels.
Bananas	6	bunches.
Plums	9	crates.

Respectfully,

JOSEPH L. JOHNSON,
Inspector of Provisions.

OFFICE OF THE BOARD OF HEALTH,
CAMBRIDGE, December 31, 1905.

To the Board of Health of the City of Cambridge: —

The undersigned Clerk to the Board of Health herewith submits a statement of the expenditures of the Health Department for the financial year ending November 30, 1905.

GENERAL EXPENSES.

Appropriation made by the City Council		$8,000 00
AMOUNT EXPENDED.		
Paid Cambridge Hospital for care of 25 scarlet fever cases, 6 typhoid fever and 5 cerebro spinal meningitis	$4,203 01	
Paid Holy Ghost Hospital for care of one case of consumption	18 00	
Reimbursed other cities and towns	306 20	
Advertising	21 80	
Ambulance repairs and maintenance	44 50	
Bacteriological supplies	179 05	
Burial of animals	128 50	
Car tickets	500 00	
Chemicals, fumigators and maintenance	477 34	
Ernst, Harold C., (Bacteriological examination)	50 00	
Examining titles	19 32	
Express	10 95	
Horse and carriage hire	75 00	
Keep of horse, clipping, shoeing, storage of vehicles, wagon and harness repairs and maintenance	578 70	
Legal services	87 01	
Mansion House (for two dinners)	2 25	
Moving property from Whiting's stable	3 00	
New horse	153 86	
Norris, Wm. H., — labor and material	10 11	
Printing and postage	818 10	
Public sanitaries	75 98	
Teaming lobsters and fish (condemned)	1 50	
Telephones	173 79	
Repairing furniture	13 50	
Stationery and office supplies	76 39	
Vaccine	8 83	
		7,536 69
Balance of appropriation		$463 31

SALARIES.

Appropriation made by City Council		$12,630 00
AMOUNT EXPENDED.		
Salary of Medical Inspector and Physician to Board	$3,000 00	
" " Clerk to Board	1,200 00	
" " Secretary	800 00	
" " Bacteriologist	1,080 00	
" " School Inspectors (10)	1,600 00	
" " Sanitary Inspectors (3)	2,950 00	
" " Plumber	1,000 00	
" " Inspector of Provisions	1,000 00	
		12,630 00
Balance of appropriation		$0 00

DIPHTHERIA HOSPITAL.

59 Reservoir Street.

Appropriation made by the City Council			$8,200 00
AMOUNT EXPENDED.			
Salary of physician	$1,200 00		
" " matron	720 00		
" " nurses	1,920 00		
" " house-man	738 00		
" " cook	313 72		
" " house-servant	316 28		
" " laundress	263 57		
Consulting physician	10 00		
Temporary help	12 00		
		$5,493 57	
Medical supplies	$164 25		
Furnishings	163 93		
Coal and wood	245 48		
Gas	86 60		
Groceries and provisions	1,561 86		
Milk	232 06		
Ice	67 18		
		2,521 36	
Miscellaneous: —			
Fees (employment bureau)	$0 50		
Garden supplies	19 50		
Paints and varnishes	31 88		
Repairs and materials	42 30		
Telephones	33 80		
Express	80		
Stationery	1 20		
		124 68	
			8,139 61
Balance of appropriation			$60 39

SMALL-POX.

Appropriation made by the City Council			$900 00
AMOUNT EXPENDED.			
Services of attendant		$782 13	
Coal		38 40	
Repairs		12 00	
Oil		15 95	
			848 48
Balance of appropriation			$51 52

Respectfully submitted,

JAMES B. SOPER,
Clerk to Board of Health.

VITAL STATISTICS.

Death Rate per 1,000 Living, from All Causes.

Population (State Census), 97,434.

1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
18.87	17.93	17.65	17.25	16.87	17.01	15.51	15.77	15.02	15.50

The mean annual death rate for the ten years, 1896 to 1905, inclusive, is 16.73.

In this report the general death rates, the death rates and morbidities of Diphtheria, Scarlet Fever, Measles and Typhoid Fever, and the death rates of Consumption, Cancer, Diarrhoeal Diseases, Whooping-cough, Pneumonia and Bronchitis for the years 1901–1904, inclusive, have been recast in conformity with the returns of the State census of 1905.

In calculating death rates, the deaths of non-residents occurring in the City are excluded, and the deaths of residents wherever they occurred are included.

The death rate for the year just passed is always a little below the correct rate, as the returns of the deaths of some residents which occurred at a distance from home are not received till after the report has been made up. This error is corrected in the next annual report.

The figures given above are the crude, or actual death rates, and while comparable with each other, they are not strictly comparable with the death rates of other places, unless the age and sex distribution of the populations to be compared are identical.

In the division of the City the districts correspond to the old five wards, and the division into the eleven wards is given in the next column.

SCARLET FEVER.

CASES REPORTED.

District.	Ward	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Total.
	8	.....	.....	1	1	3	.....	....	....	1	....	3	6	15	
1.....	9	1	4	.....	2	1	.....	....	....	1	....	.....	.....	9	24
	3	5	2	1	.....	4	1	....	...	1	....	3	2	19	
	4	3	.....	1	.....	2	1	3	....	....	....	.....	1	11	
2.....	5	.....	.....	1	1	2	5	1	....	....	....	2	1	13	43
	1	.....	.....	.....	.....	.....	.....	....	2	....	1	.....	.....	3	
3.....	2	.....	.....	1	.....	1	.....	....	....	....	3	1	.....	6	9
	6	6	1	1	.....	3	4	1	....	1	3	4	2	26	
4.....	7	2	2	3	1	2	2	....	....	1	2	4	7	26	52
	10	2	1	.....	1	1	.....	...	1	....	....	2	2	10	
5.....	11	4	1	2	2	3	.....	...	....	....	....	.....	.....	12	22
		23	11	11	8	22	13	5	3	5	9	13	21		150

The reported cases of Scarlet Fever show an increase of 15 cases over those reported in 1904.

District 1 shows a decrease of 10 cases.
District 2 shows an increase of 17 cases.
District 3 shows an increase of 8 cases.
District 4 shows an increase of 4 cases.
District 5 shows a decrease of 4 cases.

Cases Reported Weekly.

Jan.	7	5	July	8	2
"	14	5	"	15	1
"	21	7	"	22	1
"	28	4	"	29	1
Feb.	4	2	Aug.	5	0
"	11	4	"	12	0
"	18	1	"	19	2
"	25	1	"	26	1
Mar.	4	6	Sept.	2	0
"	11	2	"	9	2
"	18	2	"	16	1
"	25	2	"	23	1
Apr.	1	4	"	30	1
"	8	3	Oct.	7	1
"	15	3	"	14	2
"	22	1	"	21	1
"	29	1	"	28	3
May	6	5	Nov.	4	6
"	13	2	"	11	3
"	20	9	"	18	2
"	27	4	"	25	5
June	3	3	Dec.	2	7
"	10	4	"	9	2
"	17	5	"	16	5
"	24	2	"	23	4
July	1	1	"	30	8

Age and Sex Distribution of 149 Cases.

Age.	Males.	Females.	Persons.
0– 1 year	0	2	2
1– 2 years	2	4	6
2– 3 "	2	3	5
3– 4 "	7	8	15
4– 5 "	10	11	21
5–10 "	32	30	62
10–15 "	9	12	21
15–20 "	4	5	9
20–30 "	2	5	7
30–40 "	0	1	1
	68	81	149

Death Rate Per 1,000 Living.

1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
0.07	0.11	0.06	0.08	0.09	0.08	0.09	0.10	0.03	0.04

Morbidity, or Sick Rate, per 1,000 Living.

2.36	2.68	1.38	1.75	1.91	1.08	2.11	1.97	1.40	1.53

Fatality, or Case Death Rate, Percentage.

3.03	4.32	4.91	5.06	5.11	7.92	4.52	5.31	2.22	2.66

For the ten years recorded above the mean annual death rate was 0.07; the mean annual morbidity, 1.81; the mean annual fatality, 4.50.

DIPHTHERIA.

CASES REPORTED.

District.	Ward	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Total.
	8	.....	3	1	4	2	....	....	....	1	4	5	7	27	
1.....	9	1	3	4	3	2	1	1	1	3	4	4	6	33	60
	3	2	2	1	8	27	8	4	2	3	7	4	7	75	
	4	.....	1	2	5	24	2	2	....	2	8	3	5	54	
2.....	5	1	.....	.....	.....	4	5	1	3	4	1	3	3	25	154
	1	.....	.....	1	2	2	2	1	....	1	2	3	3	17	
3.....	2	1	.....	.....	2	3	1	2	7	4	3	1	.....	24	41
	6	.....	2	.....	7	7	5	8	....	2	8	2	2	43	
4.....	7	.....	.....	.....	1	1	....	1	1	1	1	3	4	13	56
	10	3	3	.....	.....	1	....	1	1	....	.....	2	4	15	
5.....	11	5	.....	1	1	1	....	....	1	....	2	4	9	24	39
		13	14	10	33	74	24	21	16	21	40	34	50		350

The reported cases of Diphtheria show an increase of 20 cases over those reported in 1904.

District 1 shows an increase of 41 cases.
District 2 shows an increase of 1 case.
District 3 shows a decrease of 11 cases.
District 4 shows a decrease of 10 cases.
District 5 shows a decrease of 1 case.

Cases Reported Weekly.

Jan. 7	2	July 8	10
" 14	1	" 15	2
" 21	5	" 22	5
" 28	4	" 29	2
Feb. 4	4	Aug. 5	2
" 11	2	" 12	1
" 18	4	" 19	4
" 25	5	" 26	3
Mar. 4	0	Sept. 2	8
" 11	3	" 9	6
" 18	1	" 16	5
" 25	0	" 23	6
April 1	6	" 30	2
" 8	10	Oct. 7	6
" 15	6	" 14	11
" 22	4	" 21	8
" 29	13	" 28	11
May 6	17	Nov. 4	7
" 13	18	" 11	9
" 20	19	" 18	13
" 27	12	" 25	7
June 3	12	Dec. 2	9
" 10	12	" 9	12
" 17	4	" 16	12
" 24	2	" 23	10
July 1	4	" 30	11

Age and Sex Distribution of 345 Cases.

Age.	Males.	Females.	Persons.
0– 1 year.	3	0	3
1– 2 years	6	6	12
2– 3 "	6	18	24
3– 4 "	13	23	36
4– 5 "	21	22	43
5–10 "	53	61	114
10–15 "	18	23	41
15–20 "	5	11	16
20–30 "	18	16	34
30–40 "	2	15	17
40–50 "	2	2	4
50–60 "	0	1	1
	147	198	345

Death Rate per 1,000 Living.

1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
0.77	0.60	0.34	0.61	0.78	0.65	0.36	0.30	0.26	0.27

Morbidity, or Sick Rate, per 1,000 Living.

5.43	3.74	1.73	5.58	10.00	6.61	4.88	3.38	3.42	3.59

Fatality, or Case Death Rate, Percentage.

13.6	15.8	19.0	10.9	7.78	9.59	7.60	8.69	7.57	7.71

For the ten years recorded above the mean annual death rate was 0.49; the mean annual morbidity, 4.83; the mean annual fatality, 10.82.

TYPHOID FEVER.

CASES REPORTED.

District.	Ward	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Total.
	8	1	.....	.....	.....	.....	.....	....	....	1	2	1	1	6	
1.....	9	.....	1	.....	.....	.....	... ..	....	....	4	2	....	....	7	13
	3	.....	.....	1	.....	.....	.....	1	....	5	6	...	2	15	
	4	2	.....	.....	2	. ....	1	2	7	3	4	1	1	23	
2.....	5	1	1	.....	.....	.....	.....	....	...	2	1	1	1	7	45
	1	.....	.....	.....	.....	.....	.....	....	....	5	2	...	....	7	
3.....	2	.....	.....	.....	.....	.....	.....	....	....	5	1	1	1	8	15
	6	.....	.....	.....	.....	.....	.....	....	....	8	4	3	1	16	
4.	7	.....	.....	.....	1	.....	.....	....	1	2	2	2	1	9	25
	10	.....	1	.....	... ..	.....	.....	3	....	1	1	....	....	6	
5.....	11	.....	.....	.....	.....	.....	1	....	....	4	1	....	1	7	13
		4	3	1	3	0	2	6	8	40	26	9	9		111

The reported cases of Typhoid Fever show a decrease of 25 cases from those reported in 1904.

District 1 shows a decrease of 3 cases.
District 2 shows a decrease of 5 cases.
District 3 shows a decrease of 11 cases.
District 4 shows a decrease of 6 cases.
District 5 shows no change.

Age and Sex Distribution of 105 Cases.

Age.	Males.	Females.	Persons.
1– 2 years	0	1	1
3– 4 "	0	1	1
4– 5 "	2	0	2
5–10 "	2	6	8
10–15 "	10	5	15
15–20 "	3	3	6
20–30 "	22	15	37
30–40 "	15	8	23
40–50 "	3	4	7
50–60 "	2	0	2
60–70 "	2	1	3
	61	44	105

Death Rate per 1,000 Living

1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
0.37	0.14	0.15	0.23	0.16	0.10	0.18	0.13	0.22	0.19

Morbidity, or Sick Rate, per 1,000 Living.

3.04	1.22	1.09	1.11	1.20	1.03	1.36	1.29	1.41	1.13

Fatality, or Case Death Rate, Percentage.

11.7	10.4	14.5	20.0	13.5	10.4	13.28	11.36	16.91	17.11

For the ten years recorded above the mean annual death rate was 0.18; the mean annual morbidity, 1.38; the mean annual fatality, 13.91.

MEASLES.

CASES REPORTED.

District.	Ward	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.	Total.
	8	.....	1	.....	.....	.....	....	....	....	....	.....	2	1	4	
1.....	9	3	.....	.....	1	5	1	...	....	....	.....	.....	1	11	15
	3	1	.....	.....	.....	.....	1	....	2	....	.....	7	6	17	
	4	.....	1	1	..	3	...	5	....	....	1	1	1	13	
2.....	5	.....	.....	.....	.....	.....	....	....	...	....	1	4	9	14	44
	1	.....	.....	.....	.....	1	....	....	....	....	3	6	5	15	
3.....	2	.....	.....	.....	.....	1	....	1	....	....	4	9	8	23	38
	6	.....	1	.....	.....	1	....	....	....	....	.....	1	2	5	
4.....	7	.....	1	.....	.....	.....	....	....	...	....	.....	.....	1	2	7
	10	.....	.....	.....	2	1	4	...	....	....	.....	.... .	1	8	
5.....	11	.....	... ..	.....	.....	.....	....	....	....	....	.....	.....	.....	0	8
		4	4	1	3	12	6	6	2	0	9	30	35		112

The reported cases of Measles show a decrease of 369 cases from those reported in 1904.

District 1 shows a decrease of 49 cases.
District 2 shows a decrease of 98 cases.
District 3 shows an increase of 9 cases.
District 4 shows a decrease of 182 cases.
District 5 shows a decrease of 49 cases.

Cases Reported Weekly.

Jan.	7	0		July	8	3						
"	14	0		"	15	0						
"	21	1		"	22	2						
"	28	0		"	29	0						
Feb.	4	4		Aug.	5	2						
"	11	1		"	12	1						
"	18	0		"	19	0						
"	25	2		"	26	0						
Mar.	4	0		Sept.	2	0						
"	11	1		"	9	0						
"	18	0		"	16	0						
"	25	0		"	23	0						
Apr.	1	0		"	30	0						
"	8	0		Oct.	7	1						
"	15	0		"	14	2						
"	22	3		"	21	1						
"	29	0		"	28	2						
May	6	1		Nov.	4	4						
"	13	3		"	11	8						
"	20	3		"	18	6						
"	27	4		"	25	12						
June	3	1		Dec.	2	8						
"	10	6		"	9	7						
"	17	0		"	16	10						
"	24	1		"	23	4						
July	1	0		"	30	8						

Age and Sex Distribution of 107 Cases.

Age.	Males.	Females.	Persons.
0– 1 year	2	4	6
1– 2 years	3	5	8
2– 3 "	4	3	7
3– 4 "	11	7	18
4– 5 "	6	8	14
5–10 "	19	18	37
10–15 "	1	1	2
15–20 "	1	2	3
20–30 "	5	4	9
30–40 "	1	1	2
60–70 "	0	1	1
	53	54	107

Death Rate per 1,000 Living.

1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
0.05	0.03	0.01	0.08	0.00	0.10	0.04	0.04	0.08	0.05

Morbidity, or Sick Rate, per 1,000 Living.

2.72	4.78	0.60	5.26	1.50	6.04	4.32	0.84	4.99	1.14

Fatality, or Case Death Rate, Percentage.

2.20	0.73	1.80	1.69	0.00	1.76	0.98	5.00	1.66	4.46

For the ten years recorded above the mean annual death rate was 0.04; the mean annual morbidity, 3.21; the mean annual fatality, 2.02.

CONSUMPTION.

There were reported during the year 135 cases, the age and sex distribution of which were in 113 instances as follows : —

Age.	Males.	Females.	Persons.
10–15 years	0	1	1
15–20 "	2	8	10
20–30 "	15	27	42
30–40 "	22	12	34
40–50 "	12	5	17
50–60 "	3	4	7
60–70 "	1	1	2
	55	58	113

In the cases of 16 males, and of 4 females the ages were not given.

In two cases the ages were not given and the sex could not be determined as the initials only of the Christian names were given.

The mean annual death rates per 1,000 persons living of males, females and all persons, in five year periods during the past twenty-five years are as follows :—

	1881-1885	1886-1890	1891-1895	1896-1900	1901-1905
Males	3.02	2.70	2.64	2.34	1.88
Females	3.44	2.72	2.83	2.12	1.95
All persons	3.24	2.71	2.74	2.23	1.92

During the last five years the rates for the individual years are as follows :—

	1901	1902	1903	1904	1905
Males	2.30	1.64	1.60	2.09	1.71
Females	1.85	2.32	1.91	1.83	1.79
All persons	2.07	1.90	1.76	1.96	1.75

CEREBRO-SPINAL MENINGITIS.

During the year 20 deaths were reported as due to this disease, giving a death rate of 0.20 per 1,000 persons living.

During the three decades — 1871–1880, 1881–1890, 1891–1900 — the mean annual death rates were respectively 0.14, 0.04, 0.08 per 1,000 living.

The largest number of deaths in any one year occurred in 1873, when 33 were certified as due to this cause, making a death rate per 1,000 living of 0.74.

After the vote of the Board on March 29th, requesting notification of cases of this disease, there were reported 22 cases, the age and sex distribution of which was as follows: —

Age.	Males.	Females.	Persons.
Under 1 year	1	1	2
1– 2 years	1	0	1
2– 3 "	1	0	1
3– 4 "	1	0	1
5–10 "	1	2	3
10–15 "	2	2	4
15–20 "	2	1	3
20–30 "	3	1	4
30–40 "	0	1	1
40–50 "	0	1	1
50–60 "	0	1	1
	12	10	22

Of these reported cases 17 died — 8 males and 9 females.

Death Rate per 1,000 Living.

	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
Cancer	0.68	0.54	0.82	0.56	0.75	1.03	0.83	0.75	0.87	0.77
Diarrhœal diseases.	2.41	2.21	2.00	1.35	1.51	1.05	1.04	1.17	1.20	1.08
Whooping-cough	0.21	0.19	0.25	0.31	0.13	0.11	0.09	0.15	0.03	0.14
Bronchitis	0.70	0.62	0.52	0.56	0.52	0.39	0.41	0.43	0.36	0.27
Pneumonia	1.91	1.20	1.66	1.81	1.65	1.86	1.74	1.92	1.51	1.86

The mean annual death rate for the ten years recorded above is of cancer, 0.76; of diarrhœal diseases, 1.50; of whooping-cough, 0.16; of bronchitis, 0.47; of pneumonia, 1.71.

RETURN OF DEATHS (NON-RESIDENTS OMITTED).

Age and Sex Distribution.

Age.	Males.	Females.	Persons.
0– 1 year	186	136	322
1– 2 years	26	25	51
2– 3 "	23	15	38
3– 4 "	14	11	25
4– 5 "	3	3	6
5–10 "	13	16	29
10–15 "	14	11	25
15–20 "	10	17	27
20–30 "	60	70	130
30–40 "	69	67	136
40–50 "	61	64	125
50–60 "	94	86	180
60–70 "	77	94	171
70–80 "	51	85	136
Over 80 "	33	76	109
Unknown	1	0	1
Total	735	776	1,511

Monthly Distribution.

January	133	August	142
February	124	September	135
March	129	October	115
April	129	November	120
May	139	December	97
June	117		
July	131	Total	1,511

Causes.

	Males.	Females.	Persons
Bronchitis	16	11	27
Pneumonia	94	89	183
Cancer	17	58	75
Cerebro-spinal Meningitis	9	11	20
Cholera Infantum	21	18	39
Diarrhoea and Cholera Morbus	31	32	63
Dysentery	3	1	4
Diphtheria	11	16	27
Erysipelas	1	4	5
Fever, Scarlet	2	2	4
Fever, Typhoid	12	7	19
Influenza	2	7	9
Measles	3	2	5
Phthisis	81	90	171
Puerperal Septicaemia	0	3	3
Whooping-cough	8	6	14
Diseases of Brain and Spinal Cord	93	85	178
" Heart	67	91	158
" Kidney	34	46	80
Accident	43	12	55
Homicide	0	1	1
Suicide	8	2	10
Unknown and ill-defined	35	42	77
All other causes	144	140	284
Total	735	776	1,511
Still-births	56	36	92

EDWIN FARNHAM, M. D.,
Medical Inspector and Physician to the Board

REPORT OF THE INSPECTOR OF ANIMALS

To the Honorable, the City Council:—

Gentlemen:—In compliance with the City Ordinance, I have the honor to present my annual report of Inspector of Animals and Veterinarian for the City of Cambridge for the year ending November 30, 1905.

There has been a general inspection of the cows in the City and they were found to be in a healthy condition.

I have inspected the large stables throughout the City several times and find that the number of cases of glanders among horses is decreasing.

Number of horses quarantined	64
" " " killed	52

The City horses for the past year have been in an unusually good condition.

Appropriation		$800 00
Salary	$700 00	
Walter A. Claflin	44 50	
A. Cunningham	24 10	
Walter F. Sykes	4 80	
	$773 40	
Balance on hand	26 60	
		$800 00

Thanking His Honor, the Mayor, and members of the City Council, I am,

Very respectfully yours,

CHARLES E. HADCOCK, M. D. V.,
Inspector of Animals.

REPORT OF THE BRIDGE CHARITABLE FUND

The twenty-ninth annual report relative to this fund is herewith submitted: —

The amount on deposit to the credit of this fund July 18, 1904, was	$4,514 59
Interest added to July 18, 1905	169 38
Amount on deposit to the last named date	$4,683 97

In the last annual report, especial mention was made of the fact that $2,222.78 was then due to the Overseers of the Poor.

According to the provisions of the Bridge bequest, the interest of another year increases this sum by $2,335.70. Deducting this latter sum from the amount on deposit to July 18, 1905, the net amount actually belonging to the fund is as follows —

Amount on deposit as before stated	$4,683 97
Amount due Overseers of the Poor	2,335 70
Net amount belonging to the fund	$2,348 27

By a vote of this Board passed July 11, 1905, the Mayor was authorized to draw from the Cambridgeport Savings Bank the sum of $2,222.78 from the amount on deposit to the credit of the Bridge Charitable Fund, and pay the same over to the Overseers of the Poor, the money to be by them applied in accordance with the wishes of the donor of said fund. Notwithstanding the vote as above stated, no money has not as yet been taken from the fund by the Overseers of the Poor.

The story of the establishment of this fund by the donation of John Bridge, and the subsequent addition of a similar gift from Samuel J. Bridge, a distant relative of the donor, has been told in many of the previous reports of the Trustees. To these former reports the attention of those interested in the matter must be directed. It was the earnest wish of the original donor, that the fund might be enlarged by other contributors, to the end that through its foundation a timely and generous relief would come to many worthy, but unfortunate persons in this community. In this humane wish the present Trustees would heartily join, with the hope that in the not distant future, the generous accretions to the fund may make it of great service in aiding the deserving poor "whom we have always with us."

AUGUSTINE J. DALY,
J. EDWARD BARRY,
GEORGE A. GILES,
Trustees of the Bridge Charitable Fund.

REPORT OF THE TRUSTEES OF THE SANDERS TEMPERANCE FUND

The fortieth annual report concerning this Fund is herewith submitted.

As has been stated in many previous reports the duties of this Board are nominal only.

The use for which the income of this Fund is devoted was prescribed in the terms of the bequest. It is provided by City Ordinance that the Board of Trustees shall consist of the Mayor, and the Presidents of the two branches of the City Council. The sum of Ten Thousand Dollars ($10,000.00), the amount of the Fund was originally paid into the City treasury in the year 1864, and since then, the city has paid a sum equal to the interest thereon at the rate of six per cent per annum. The amount of this interest has constituted the salary of the missionary appointed agreeably to the terms of the Sanders will. The comprehensive plan of the donor for the promotion of temperance reform in our City has been carried out year by year for forty years. During that stretch of time the beneficient provisions of this bequest must have brought incalculable good in our community.

The present missionary, Mr. James Hicks, was appointed several years ago, and he has been continued in office. His heart is fully in accord with his work and he has zealously labored "in season and out of season" with untiring devotion to his philanthropic calling. His practice is to visit the District Court at its criminal sessions giving his helpful counsel wherever it is needed, and also to look after the families to which drunkeness has brought poverty and suffering. He has endeavored to lead the fallen ones into happier paths. His report of what he has accomplished is appended hereto.

AUGUSTINE J. DALY,
J. EDWARD BARRY,
GEORGE A. GILES,
Trustees of the Sanders Temperance Fund.

To the Honorable, the Trustees of Sanders Temperance Fund: —

GENTLEMEN: —In compliance with your requirements, I hereby present my report for the year ending December 31, 1905. Throughout the year I have devoted my whole time to the work intrusted to me, making

it my daily duty to faithfully and conscientiously discharge the many responsibilities connected with the office. I ever keep in mind the object which was uppermost in the mind of the philanthropic founder of the Fund, which made it possible for me daily to go my rounds of duty, carrying with me words of comfort and cheer to those in sorrow and suffering, most of which has been brought on through the intoxicating cup. It would be impossible for me to picture the many sad homes I have entered during the year, the tales of sorrow to which I have listened, the weeping wives, and almost starving children with slow despair creeping over their souls, I have met and listened to as they related their sad experiences.

During the year I have made one thousand three hundred and thirty-five visits to such homes as referred to, and have in every case been a welcome visitor. I have ever gone forth in the name of my Divine Master, looking for that blessing which He alone can give to make my mission to these desolate homes have its much desired effect. The ruin and havoc strong drink has made has been clearly seen as I entered. The good wife and mother with her dear little ones, hardly knowing which way to turn. Rent unpaid, no food in the house, scarcely any furniture, or any clothing to cover herself or children, and very often no fuel. Something more than advice in such cases was expected of me, and by God's help I have been enabled to tide over for the time being the needs of the hour. My next step in each case was to use means to reach the selfish and thoughtless one who was the cause of the conditions I saw. The pledge of total abstinence administered, and promises made by the erring father, when kept, soon resulted in my finding employment which had been lost through the drink habit.

The large factories have been wonderfully kind in placing reformed men to work on my recommendation, and I am pleased to say but few have disappointed me, and I have had no complaints from the superintendents of infidelity on the part of men sent there.

DISTRICT COURT.

It has been my privilege daily to attend the sessions of the District Court, where the door is always open to many opportunities to advise and otherwise assist those who are in trouble, and it is needless for me to say, the needy ones, so far as I can in any way render assistance, are never neglected. The Court, I find, is the best teacher for a great many men who disregard all other appeals to forsake strong drink. Wives and mothers, as a rule, make an appeal to the Court when all else fails, as a last resort. And very often through the kindly action of the presiding justice, these men are brought to a realization of their position.

They are placed on probation, and cared for, looked after, made to work, report regularly, and so far as my work goes in regard to the men given me to look after, I see to it that they attend the temperance societies and take the pledge, I visit them in their homes, and in every way in my power aid and encourage the new departure.

Many of these men have said to me, "I wish I had been brought before the Court years ago; my life would have been different. I find now life is worth living for, and my home is something to be proud of."

PUBLIC TEMPERANCE MEETINGS.

There are four weekly, and one semi-weekly temperance meetings held in the City, where the pledge of total abstinence is always offered for signature. These meetings are officered and supported by reformed men, many of whom have been hard drinkers, who through coming into such meetings, sign the pledge, and abandon the drink habit and saloon company. They have regained their manhood and feelingly reach out for the companion left behind. I have assisted during the year in carrying on this work, and have been present at two hundred and fifty-four of these gatherings, at which over nine hundred persons have signed the pledge. The reformed men are deeply grateful to the management of the Young Women's Christian Association, who kindly gave the free use of the rooms of the Margaret Fuller House on Cherry Street, for meetings. Several men have taken the pledge at these meetings, and are, to the great benefit of their families, keeping the same.

I have been sought after by temperance workers and churches in other cities to talk of our temperance work in Cambridge, as they wanted to pattern after our plans. A few Sundays ago I spoke in New Bedford in two churches, morning and evening, and as a result of my appeal for sympathy and help in reclaiming such from strong drink had 231 pledge signers. In several other places I have had good results.

HOUSE OF CORRECTION.

For almost ten years I have attended the Chapel services every Sunday morning with few exceptions, and done what I could to encourage the work of reform in this institution. I have had many encouraging words from discharged prisoners who have gone forth into the world reformed men, some I know who are holding responsible positions having got their life lesson in the institution. I have spoken with many of the inmates during the year, collected many thousand pages of literature from publish-

ing houses, and friends of the confined ones, and had the same distributed Sundays as they leave the Chapel services.

In concluding, I render thanks to Almighty God for the many visible signs of his approval on my feeble efforts during the year, for the men who have given up their cups, for the homes that have been made happy, for the testimonies on the right and left, as to the benefits derived from signing and keeping the pledge.

I thank all temperance societies in our City for hearty cooperation and assistance. Also would I express my indebtedness to the clergy with whom I held intercourse many times in individual cases belonging to their respective parishes for their good word and ready help. Of the old time temperance workers a few only are left amongst them. Mr. T. H. Raymond, Chairman of the No-License Committee, with whom for over 22 years I have labored side by side, in the temperance reform is always at the meetings, giving the good word at the right time, the true friend of the weak and unfortunate. Through all my work he is a source of inspiration and help. I thank him and all others who have helped along so worthy a cause.

Respectfully submitted,

JAMES HICKS,
Missionary Sanders Temperance Fund.

REPORT OF THE AGENT OF SOLDIERS' AID

CAMBRIDGE, December, 1905.

To the Honorable, the City Council, of Cambridge, Mass.:—

GENTLEMEN:—I respectfully submit the annual report of this department for the year ending November 30, 1905.

For nearly three years the disbursement of State Aid and the duties attendant thereto have been performed by the Clerk of Committees Department. This consolidation was made with a view to economy, as the compensation originally allowed for the work was reduced, and it was expected that it would be a saving to the City. While to a certain extent this is true, in fact it has really cost the City more each year than heretofore, as in former years each application was duly investigated while at the present time nothing of that kind is done and there is no doubt but what the City is a loser by the change.

The following is the financial statement of all money appropriated and disbursements made during the year:—

The number of beneficiaries November 30, 1904, was	408	
Applications considered	142	
		550
Died during the year	23	
Left the City or dropped	64	
		87
Balance on rolls		463
Amount appropriated for the year 1904		$25,000 00
Additional appropriation		1,850 00
Total appropriated		$26,850 00

EXPENDED.

Pay-rolls	State Aid	$13,987 50	
	Miitary Aid	993 00	
	Soldiers' Relief	9,582 00	
	Clerk	500 00	
Deaths		805 00	
Sundry bills		978 55	
Total expended			26,846 05
Relinquished to treasury			$3 95

The Committee on Soldiers' Aid have been untiring in their efforts to give to those who have applied, all the consideration possible, and to them I extend my sincere thanks for the manner in which they have assisted me, and for the great interest they have shown for the welfare of the needy veterans and widows.

Respectfully submitted,

EBEN W. PIKE,

Clerk and Agent.

REPORT OF INSPECTOR OF MILK

DEC. 1, 1904, TO JUNE 1, 1905.

OFFICE OF INSPECTOR OF MILK AND VINEGAR,
CAMBRIDGE, MASS.

To His Honor, the Mayor, and the City Council of the City of Cambridge: —

GENTLEMEN: — I have the honor to present the report of the Department of Milk Inspection for the period beginning December 1, 1904, and ending June 1, 1905.

The routine work of the department has been carried on in the manner outlined in previous reports. In accordance with the wish expressed in the last report part of the increase asked for by the department has been granted and preparations have been made for taking up bacteriological work on milk. A steam sterilizer, collecting and planting outfits have been bought and preparations for beginning the work nearly completed.

The department after taking up the new work will be more than ever cramped for space in which to set up apparatus and perform the necessary work. The question of providing suitable quarters cannot too soon be taken up. A laboratory with chimney connection, hot and cold water, gas and electricity and good lights is a necessity that cannot long be delayed if the City is to get the most return for the appropriation of the department.

Following are the results of analytical work on milk: —

TABLE I.

RESULTS OF ANALYTICAL WORK ON MILK.

MONTHS. December 1, 1904, to June 1, 1905.	Number of samples.	Samples below standard, in fat or solids.	Per cent. below standard, in fat or solids.	TOTAL SOLIDS.			FAT.			Solids not fat. Average.	Warnings.
				Highest.	Lowest.	Average.	Highest.	Lowest.	Average.		
*December	392	223	57.0	19.26	9.48	13.00	10.8	2.8	3.95	9.05	29
*January	353	290	82.1	15.68	10.24	12.62	6.9	1.5	3.70	8.92	54
*February	257	186	72.4	18.74	11.00	12.84	11.0	2.1	3.88	9.04	19
*March	416	346	83.2	16.08	10.86	12.61	7.4	2.3	3.70	8.91	51
†April	206	21	10.2	20.96	10.58	12.63	10.0	2.0	3.72	8.91	20
†May	351	31	8.9	20.76	10.92	12.60	12.4	2.2	3.63	8.97	30
Total	1,975	1,097	55.6	20.96	9.48	12.72	12.4	1.5	3.77	8.95	203

* Standard Fat, 3.7 per cent. Solids, 13 per cent.
† Standard Fat, 3 per cent. Solids, 12 per cent.

The watch for colored samples has been unremitting, but none have been detected although all suspicious samples have been tested for aniline, anatto and caramel. Preservatives have been specially tested for since the first of May, but throughout the year the addition of ferric chloride to the acid used in the Babcock test renders the detection of any sample containing much formaldehyde certain.

BUTTER.

The butter in all stores has been inspected and samples taken of 59 packages. All cases of sales of renovated observed were properly labeled and no oleomargarine has been found. All samples were tested for borax and one sample was found containing it. The store was notified and the wholesaler withdrew all butter of that brand.

VINEGAR.

Thirty-six samples of vinegar have been analyzed for solids, acidity, malates, sulphates, chlorides, lime, ash, alkalinity of ash and polarized.

One sample was found deficient in solids, four deficient in acid; the others were up to the standard and properly branded. Warnings were sent in regard to the four samples below in acid.

The following statistics are taken from the records of the department covering the period named: —

Milkmen licensed	96
Stores licensed	79
Milk samples analyzed	2,097
Cream samples analyzed	2
Butter samples analyzed	59
Vinegar samples analyzed	37
Milk examined for ptomains	1

EXPENDITURES.

SALARIES.

Appropriation		$1,575 00

EXPENDED.

For salaries of: —		
Philip P. Sharples	$466 66	
Deputy Clemence J. Hogan	266 00	
	$732 66	
Balance of appropriation	842 34	
		$1,575 00

GENERAL EXPENSES.

Appropriation		$586 00
EXPENDED.		
Printing	$40 45	
Apparatus	164 45	
Chemicals	6 30	
Car tickets	30 00	
Stationery	4 86	
Express	4 05	
Samples and incidentals	4 27	
	$254 38	
Balance of appropriation	331 62	
		$586 00

Respectfully submitted,

PHILIP P. SHARPLES,

Inspector of Milk and Vinegar.

REPORT OF INSPECTOR OF MILK

JUNE 1 TO DECEMBER 1, 1905.

OFFICE OF INSPECTOR OF MILK AND VINEGAR,
CAMBRIDGE, December, 1905.

To His Honor, the Mayor, and the City Council of the City of Cambridge:—

GENTLEMEN: — I have the honor to submit the following report for the six months, June 1 to December 1, 1905.

The total number of samples collected and examined was 2,730, divided as follows: —

Milk samples seized and analyzed	1,871
" " brought in by citizens	80
" " examined bacteriologically	700
Total milk samples	2,651
Number samples of vinegar	58
" " " butter	21
	2,730

The routine work of the department determining the chemical food value of about 300 milk samples monthly has been continued as outlined in my predecessor's reports.

Coloring matters have been constantly looked for, but in vain. Every sample has been tested for formaldehyde and boric acid, also in vain. Two cases of watered milk and three of skimmed milk sold as whole milk have been prosecuted and fined during the past six months.

In addition to the chemical work some 700 bacterial counts of milk samples have been made with the apparatus purchased in the spring.

The steam sterilizer has been located in the basement near the boiler room so that the necessary steam can be speedily turned on and the temperature maintained at 240 degrees F. for twenty minutes without the long delay we at first experienced by using gas to generate steam in the apparatus.

The results of our first 700 tests indicate the following bacterial counts in the City supply: —

Count less than 50,000 per cubic centimeter	38 per cent
" from 50,000 to 100,000	16 " "
" " 100,000 to 250,000	14 " "
" " 250,000 to 500,000	9 " "
" above 500,000	23 " "

A powerful centrifuge is now installed which throws down the sediment of 20 samples of milk at a time. This contains any pus cells and

germs suspended in the sample. Subsequent staining and microscopical examination gives valuable information concerning the cleanliness of the milk and the health of the herd producing it.

A personal interview with nearly all milk handlers in the City has been held impressing each with the necessity of using clean utensils and of keeping the milk constantly cold, below 50 degrees F.

Most dealers kindly accept these directions as aiding the keeping qualities of the milk as well as benefiting the purchaser. As soon as all have been instructed and ample time given for arranging their ice supplies during the summer months the ordinance enacted by your Board of Health last year will be more stringently enforced, making it a legal offence, punishable with a fine of $100.00, to have in one's possession with intent to sell milk containing over 500,000 bacteria per cubic centimeter or which has a temperature higher than 50 degrees F.

During the fall your Inspector has visited some sixty farms in our suburbs sending milk into Cambridge and has recommended lines for increased cleanliness and better cooling of the milk during the summer months.

Nearly all the large dealers are today equipped with bacteriological departments keeping a check on their individual dairies so as to weed out such as will not carry out the ordinary rules of cleanliness and of cold.

BUTTER.

Twenty-one samples of suspicious butter collected during the routine inspection of every store have been tested. All were found pure.

VINEGAR.

Fifty-eight samples were analyzed for solids, acidity, malates, sulphates, chlorides, lime, ash, alkalinity of ash and polarization constant. All were found correctly labeled.

RESULTS OF ANALYTICAL WORK ON MILK.

Months. June 1, 1905, to December 1, 1905.	Number of samples.	Samples below standard, in fat or solids.	Percent. below standard, in fat or solids.	Total Solids.			Fat.			Solids not fat. Average.	Warnings.
				Highest.	Lowest.	Averag	Highest.	Lowest.	Average.		
June	315	23	7.3	16.20	10.60	12.58	7.8	1.9	3.65	8.93	10
July	388	37	9.5	15.14	10.12	12.55	6.2	2.4	3.66	8.89	10
August	343	42	12.24	15.10	10.06	12.47	10.0	1.6	3.69	8.78	21
September	302	19	6.31	15.30	10.14	12.76	7.2	2.2	3.85	8.91	12
October	360	248	68.88	14.58	9.34	12.84	5.0	1.6	3.83	9.01	16
November	163	80	49.0	16.30	11.20	12.99	5.2	2.8	3.93	9.06	5

STATISTICS.

Stores on record December 1, 1905	466
Milkmen licensed	123
Stores licensed	160
Milk via railroad per diem	6,647 gals.
Milk from suburbs "	3,400 "
Milk raised in City "	393 "
Milk brought in by producers	1,400 "

COURT CASES.

Complaints	4
Convictions	4

Nature of Complaints.

Milk below standard	3
Watered milk	1
Fines	$75 00

EXPENDITURES.

SALARIES.

Appropriation		$1,575 00
EXPENDED.		
Salaries of: —		
Inspectors: —		
Philip P. Sharples	$466 66	
Albert P. Norris	500 00	
Deputy: —		
Clemence Hogan	604 00	
		1,570 66
Balance unexpended		$4 34

GENERAL EXPENSES.

Appropriation		$586 00
EXPENDED.		
Expended to June 1 (See above)	$254 38	
Expended from June 1 to date: —		
Printing	$27 38	
Apparatus	206 96	
Chemicals	45 56	
Car tickets	30 00	
Stationery	1 45	
Express	2 80	
Samples and incidentals	30	
	314 45	
Total expenditures		568 83
Balance of appropriation unexpended		$17 17

Respectfully submitted,

ALBERT P. NORRIS,
Inspector of Milk.

REPORT OF THE CITY MESSENGER

OFFICE OF CITY MESSENGER,
CAMBRIDGE, MASS., December 1, 1905.

To the Honorable, the City Council: —

GENTLEMEN: — In compliance with the provisions of Section 3, Chapter 8, of the "Revised Ordinances of 1892," the City Messenger has the honor to submit his annual report for the year ending November 30, 1905, as follows: —

Stock of stationery on hand December 1, 1904	$479 58
Purchased during the year	1,698 44
	$2,178 02

Delivered to the several departments as follows: —

Assessors' Department	$77 63
Auditing Department	46 34
Board of Health	66 96
Board of Survey	2 25
Cemetery Department	64 55
City Clerk Department	137 55
City Messenger Department	123 28
Clerk of Committees Department	100 43
Contingent Fund (City Council Expenses)	28 45
Election Expenses (City Clerk)	86 00
Electrical Department (Wires)	28 16
Electrical Department (Lamps)	1 00
Engineering Department	30 85
Fire Department	8 59
Inspector of Milk and Vinegar	6 31
Law Department	26 03
Overseers of the Poor	82 00
Park Department	85 53
Police Department	36 66
Sealer of Weights and Measures	6 77
Sewer Department	17 70
Soldiers' Aid Department	20 07
Street Department	144 00
Superintendent of Buildings Department	19 54
Registrars of Voters	25 45
Treasury Department	46 60
Water Department	89 07
Profit and Loss	39 87
Stock on hand December 1, 1905	607 75
	$2,178 02

During the year Annual Documents have been received from the following cities and towns and are on file in the reference library : —

Arlington, 1904.
Bangor, Me., 1905
Belmont, 1904.
Beverly, 1904.
Brockton, 1904.
Burlington, Vt., 1904.
Boston, 1904.
Chicopee, 1904.
Chelsea, 1904.
Concord, N H., 1904.
Everett, 1904.
Fall River, 1904.
Fitchburg, 1904.
Gloucester, 1904.
Haverhill, 1904.
Holyoke, 1904.
Lawrence, 1904.
Lowell, 1904.
Lynn, 1904.
Marlboro, 1904.
Man. Mass. Gen. Court, 1905.
Melrose, 1904.
Nashua, N. H., 1904.
New Bedford, 1905.
Newburyport, 1904.
Newton, 1904.
Newport, R. I., 1904.
North Adams, 1904.
Northampton, 1904.
Portland, Me , 1904
Pittsfield, 1905.
Portsmouth, 1904.
Providence, R. I., 1904.
Salem, 1904.
San Francisco, Calif., 1904.
Somerville, 1904.
Springfield, 1905.
St. Louis, 1905.
Taunton, 1904.
Waltham, 1904.
Watertown, 1905.
Woburn, 1904.
Worcester, 1905.

Respectfully submitted,

FRANK T. EVANS,
City Messenger.

REPORT OF THE BOARD OF SURVEY

CAMBRIDGE, December, 1905.

This Board herewith presents its fifth annual report.

In the month of January last, William E. Doyle, Esq., was reappointed by His Honor, the Mayor, as a member of this Board, it being for the term of three years. The organization of the Board consisting of William E. Doyle, Esq., as President, was continued for the year 1905.

The matter of the proposed changes in the approaches to the new Cambridge Bridge, which largely engaged the attention of the Board in the year 1904, through a reference of the same by the City Council, has been taken in charge by the Bridge Commissioners under the provisions of Section 1 of the Act authorizing the construction of the bridge. The City Council had previously given a hearing upon an order of notice of intention to change the approach to the new bridge from First Street. The Board gave hearings upon the proposed change of the lines of First Street; the extension of Commercial Avenue to Second Street; the extension of Second Street, and the widening of Athenaeum Street. As was stated in the annual report for the year 1904, this Board invited a conference upon the matter between His Honor, the Mayor, the City Engineers of Boston and Cambridge, the Boston Elevated Railway Company and Mr. F. L. Olmsted. The action taken at this meeting was not reported to this Board.

The Board has given hearings upon the proposed widening and laying out of several private ways, most of which have already been in public use.

In all cases where the public necessity and convenience seemed to require favorable action in furtherance of the wishes of the petitioners for the acceptance of a street, the plans submitted have received the unanimous approval of the Board.

Plans of streets have been approved as follows: —

Date of Approval.	Street.	From	To	Date of Plan.
May 10....	Whittemore avenue..	Magoun street...	Kimball street.....	Nov. 5, 1904
June 14....	Hancock street.....	Franklin street..	Kinnaird street	Nov. 1874
June 14....	Gurney street...	Huron avenue...	Fayerweather street.....	Apr. 15, 1904
Oct. 19....	Lowland avenue.....	Charles street...	Vine street.....	Oct. 1905
Oct. 19....	Winslow street... ...	Garden street ...	Easterly across Sherman street.	Sept. 16, 1905
Oct. 19....	Railroad street.....	Middlesex street	Yerxa road.....	Apr. 16, 1905
Oct. 19....	Fenno street	Sherman street..	Easterly to passageway.....	June 3, 1904
Oct. 19....	Middlesex street.....	Sout'ly terminus	Railroad street	Aug. 14, 1905

A petition from the State Armory Commission for the acceptance of Wellesley Street between Massachusetts Avenue and Danforth Street, has been before this Board since the beginning of the year 1904.

The new armory on Massachusetts Avenue is located at the corner of Wellesley Street, and has a frontage of over three hundred feet on this street. The petitioners were requested to file a plan but failed to do so, and the petition was therefore discharged from the files of this Board.

Similar action was taken on a petition from B. D. Hyde and others for the laying out of Greenhalge and Robinson Streets, plans of which were not filed.

The Board has disapproved of a plan for the laying out a street between Wendell and Sacramento Streets in extension of Gorham Street.

Action has been delayed upon two plans upon which protracted hearings were given, one of which was of a widening and laying out of Magazine Court, and the other a plan of the proposed extension of Allston Street through private land to Kenwood Street connecting with Somerset Street. Magazine Court is an established way, wholly built over, and long ago dedicated by the abuters to public uses. The Board deferred action upon these matters to give the owners on Magazine Court an opportunity to obtain releases of the land which it will be necessary to take in case the prosposed widening should be approved. A plan of a proposed street to be called Marie Street, laid out on the estate of the late Charles Linehan also awaits action thereon. When considered by the Board the plan did not definitely locate the street with reference to the other main avenues in the vicinity. The proper measurements have since been put upon the plan.

The above recital comprises the story of the work of the Board for the year 1904. The primary object of the establishment of a Board of Survey in this City, was to secure a more deliberate judgment in the matter of laying out of public ways, to the end that some definite system in reference to the same might be set up and maintained, and to provide that in the development of private lands, new streets when laid out should conform to such system. It was believed that the Act as originally drawn would operate to prevent any hasty action in the laying out of streets, and through a wise though unobstructive conservatism would encourage the systematic laying out of street lines such as would be advantageous and creditable to the City in all time to come.

In concluding this report, the Board regrets to add, that in the latter part of November last, John T. Scully, Esq., who had been a valuable member for the past two years, tendered his resignation. The vacancy thus created has not been filled.

WILLIAM E. DOYLE,
JAMES A. WOOD,
Board of Survey.

REPORT OF THE SEALER OF WEIGHTS AND MEASURES

OFFICE OF THE SEALER OF WEIGHTS AND MEASURES,
BRATTLE SQUARE, CAMBRIDGE, December 1, 1905.

To the Honorable, the City Council: —

In compliance with the City Ordinance, I respectfully submit a report for the Department of Weights and Measures for the year ending November 30, 1905.

Appropriation			$2,600 00
EXPENDITURES.			
Salaries of Sealers: —			
George H. Dinan		$1,113 58	
John C. Connors		850 00	
		$1,963 58	
Assistants: —			
Bartholomew Geary	$86 40		
Francis H. Nugent	13 20		
		99 60	
Care of Horse: —			
Street Department, for board	$216 00		
Street Department, for shoeing	8 51		
		224 51	
Repairs on Wagons and Harnesses: —			
Burton & McCannon	$30 75		
Hugh McCaffrey	2 15		
		32 90	
Marking acid, Malden Specialty Co.		25 50	
Repairs on City Scales: —			
E. D. Sawyer Lumber Co.	$0 50		
Cornelius Mahoney	35 69		
		36 19	
Equipment: —			
H. C. Dimond & Co.	$18 64		
Brock & Eaton	4 56		
Peter Gray & Sons	15 00		
Fairbanks Co	6 64		
Chadwick & Boston Lead Co.	2 80		
		47 64	
Office Incidentals: —			
N. E. Tel & Tel. Co.	$22 40		
A H. Edgerly	3 50		
Boston Elevated Railway Co.	20 00		
Amounts carried forward	$45 90	$2,429 92	$2,600 00

Amounts brought forward	$45 90	$2,429 92	$2,600 00
Library Bureau	1 13		
Delia Taylor	1 10		
Cambridge Chronicle	7 50		
City Messenger Department	6 77		
W. A. Greenough & Co.	3 50		
J. A. Cummings Printing Co	7 11		
Caustic-Claflin Co.	8 25		
George H. Dinan	90		
Amee Bros.	80		
American Express	15		
Sawin's Express	15		
		83 26	
		$2,513 18	
Appropriation			$2,600 00
Total expenditures			2,513 18
Amount unexpended			$86 82

REVENUE.

Fees for Sealing	$669 11	
Fees for Adjusting	38 90	
Weighing fees at City Scales	72 94	
		$780 95
Total amount expended	$2,513 18	
Total of fees collected	780 95	
Net expense of Department		$1,732 23

TESTS MADE AT OFFICE FOR YEAR ENDING NOVEMBER 30, 1905.

S—Sealed. A—Adjusted. C—Condemned.

	Scales.			Weights.			Dry Measures.			Liquid Measures.			Yard Measures.		Baskets		Milk Measures.	
	S	A	C	S	A	C	S	A	C	S	A	C	S	C	S	C	S	C
1904																		
Dec	2	....	....	...	....	....	4	....	....	47	....	....	....	....	....	....	11,465	7
1905																		
Jan.	5	2	....	15	10	...	13	....	....	133	32	1	....	....	2	....	12,678	888
Feb.	6	4	....	17	9	....	13	....	....	1	....		....	....	....	....	10,135	345
Mar.	37	9	7	55	10	....	127	....	2	23	....	....	....	....	....	....	20,821	56
Apr.	32	4	3	20	6	....	220	3	1	87	....	23	....	....	....	....	6,459	762
May	33	6	5	55	11	....	120	....	....	38	....	24	....	....	....	...	7,080	190
June	19	....	3	....	....	....	41	1	....	11	6	....	....	....	6	....	11,254	110
July	9	....	....	13	6	....	30	....	....	6	....	....	....	....	....	....	3,105	215
Aug.	6	....	2	11	....	1	23	....	....	2	....	....	....	....	....	....	7,889	223
Sept.	5	1	....	7	....	....	7	1	....	....	....	....	....	...	....	....	12,333	16
Oct.	3	....	....	.	....	....	18	....	....	83	....	....	....	....	6	....	329	31
Nov	1	....	....	....	....	....	3	...	....	....	...	...	...	...	2	....	2,804	233
	158	26	20	193	52	1	619	5	3	431	38	48	....	....	16	....	106,352	3,076

Total number of tests made at this office, 110,917.

TESTS MADE OUTSIDE OF OFFICE FOR THE YEAR ENDING NOVEMBER 30, 1905.

S — Sealed. A — Adjusted. C — Condemned.

	Scales.			Weights.			Dry Measures.			Liquid Measures.			Yard Measures.	
	S	A	C	S	A	C	S	A	C	S	A	C	S	C
1904														
Dec.														
1905														
Jan.	2			4										
Feb.														
Mar.	3	3		14	6									
Apr.	201	15	8	608	85		246		2	284		2	24	
May	232	36	15	680	65		261	3	6	249		2	11	
June	202	26	11	685	78		179		2	220	1	1	4	
July	128	31	7	606	121		3							
Aug.	147	29	3	438	62		73		3	78			2	
Sept.	291	31	9	889	83	2	203	1	8	243		7	41	
Oct.	366	42	19	1,205	93	6	316		7	338		10	22	1
Nov.	342	34	5	1,023	66		365	1	15	454		15	19	
	1,914	247	77	6,152	659	8	1,646	5	43	1,866	1	37	123	1

Total number of tests made outside of office, 11,867.

RECORD OF TESTS MADE FOR YEAR ENDING NOVEMBER 30, 1905.

	Sealed.	Adjusted.	Condemned.	Total Inspected.	Per Cent. Sealed.	Per Cent. Adjusted.	Per Cent. Condemned.	Number Correct.	Number Incorrect.	Per Cent. Correct.	Per Cent. Incorrect.
Scales	2,072	273	97	2,169	95.5	12.6	4.5	1,799	370	82.9	17.1
Weights	6,345	711	9	6,354	99.9	11.2	.1	5,634	720	88.7	11.3
Dry Measures	2,265	10	46	2,311	98.0	.4	2.0	2,255	56	97.6	2.4
Liquid Measures	108,649	39	3,161	111,810	97.2		2.8	108,610	3,200	97.2	2.8
Yard Measures	123		1	124	99.2		.8	123	1	99.2	.8
Baskets	16			16	100.0		.0	16		100.0	.0
	119,470	1,033	3,314	122,784	98.3	4.0	1.7	118,437	4,347	94.3	5.7

Total number of tests made, 122,784.

WEIGHTS AND MEASURES DEPARTMENT.

INVENTORY OF PROPERTY.

Standards Furnished by the Commonwealth.

1 balance, 5 grains to 100 lbs.
1 set (5) avoirdupois weights, 50, 25, 20, 10, 5 lbs.
1 set (11) avoirdupois weights, 4 lbs. to 1-16 oz.
1 kilogram in case.
1 steel meter in case.

1 brass yard measure.
1 set (5) iron dry measures. ½ bushel to 1 quart.
1 set (6) iron liquid measures, 1 gallon to 1 gill.

1 roll top desk.
1 black walnut desk, used by Superintendent of Janitors.
1 black walnut desk.
5 chairs.
1 table.
1 clothes press.
1 scale cabinet.
1 wooden cabinet.
2 benches.
1 sink.
5 mats.
1 set Revised Laws.
1 set card records, oak case.
1 set card index, oak case.
1 hektograph.
1 letter press.
1 blotter bath
Miscellaneous books $200 00

1 bay horse	100 00	
1 express wagon	100 00	
1 light wagon	75 00	
1 pung	23 00	
2 harnesses	70 00	
1 plush robe	1 00	
1 stable blanket	2 00	
1 rain blanket	2 00	
1 woolen blanket	5 00	
1 halter	75	
1 hitch weight	50	
1 platform scale, 1-2 lb. to 2,500 lbs.	75 00	
1 folding platform scale, 1-4 lb. to 600 lbs.	30 00	
1 balance, 1–10 milligram to 500 grams	35 00	
1 balance, 1–50 grain to 1-2 lb.	15 00	
1 sealers' balance, 1 grain to 8 lbs.	50 00	
2 sealers' trip scales (not used)	5 00	
1 spring scale, 1 lb. to 125 lbs.	1 00	
2 sets (19) avoirdupois weights, 4 lbs. to 1–8 oz.	10 00	
1 set (9) troy weights, 16 oz. to 1–8 oz.	3 00	
1 set (13) metric weights, 1 kilo to 1 gram	5 00	
5 boxes miscellaneous weights (not standardized)	10 00	
1 set (3) iron weights, 25, 10, 5 lbs.	5 00	
40 50-lb. weights	100 00	
3 glass graduates	1 00	
1 set (21) grain weights, 1,000 gr. to 1-100 gr.	13 50	
1 set (21) metric weights, 50 gram to 1-10 mg.	13 50	
1 set (5) copper dry measures, 1–2 bushel to 1 quart	45 00	
1 set (3) brass dry measures, 1 quart to 1–2 pint	5 00	
2 sets (14) copper liquid measures, 1 gallon to 1 gill	30 00	
1 iron truck	5 00	
1 5-gallon copper measure	15 00	
1 steel tape	10 00	
1 pair of inside calipers	3 50	
1 set brands	3 00	
1 plumbers' furnace	5 00	
Miscellaneous tools	50 00	
1 wagon scale (Lechmere Sq.)	400 00	
1 wagon scale (Union Sq.)	350 00	
		$1,872 75

During the past year, 122,784 tests of scales, weights and measures have been made, which is an increase of approximately 9 per cent over last years figures of 112,917 tests. Of these 122,784 tests over 10,000

were of glass milk jars, which according to statute we are compelled to seal in the office without the collection of any fee.

The majority of these jars are used by one firm in this City and at times we have been compelled to suspend outside work to keep them supplied with sealed measures. As this has happened quite frequently during the past year, the revenue of the department has suffered and we have not been able to exercise the constant supervision which is needed to prevent violations of the laws regarding weights and measures.

Much time has to be devoted to keeping the record of work performed by this department and as time could not be spared from the regular working hours it was necessary to do the work at home evenings.

In view of the foregoing and together with the fact that on very many occasions people have made several visits to this office only to find us absent on outside inspections, the Sealer would recommend that this department be increased by an additional Deputy Sealer.

The magnitude of our outside work can be better understood when it is taken into consideration that nearly every person doing business uses a scale or measure of some kind, and that each one of these persons must be visited once during the year and in a good many cases nine or ten times.

Of a total of 2,169 scales tested, ninety-seven were condemned as useless for weighing purposes and their use forbidden until they were put in proper condition. This is a large increase over preceding years and is accounted for by the fact that many scales now on the market are of faulty construction and do not conform to the standard.

We have had very few complaints this year of violation concerning the laws on weights and measures. Two offenders were summoned into court and found guilty, one of them being fined $50.

There has been a decided increase during the past year in the business of selling wood by the barrel and the Sealer has had many complaints regarding the size of the barrels. Unfortunately there is no statue or City Ordinance regulating the capacity of the same and in many cases the barrels have been altered to one-half their original size.

This department, together with other persons interested in this matter, appeared before the Committee on Mercantile Affairs of the State Legislature with a petition and accompanying bill to regulate the sale of wood, of which the following is a copy : —

"An Act to Regulate the Sale of Kindling Wood.

Sec. 94. Kindling wood unless sold by the load, bundle or cord measure, shall be sold by Massachusetts standard dry measure and the measures used in measuring the same shall be sealed. When kindling

wood is sold by the bundles, the bundles shall be of the dimensions of ten inches in length by seven inches in breadth by two and one-half inches in thickness. Whoever violates any of the provisions of this section shall be punished by a fine of not more than dollars, and it shall be the duties of the Sealers of Weights and Measures to cause the provisions of this section to be enforced in their respective cities and towns."

Not being successful in having such legislation adopted the Sealer would recommend that a City Ordinance be passed to protect the citizens of Cambridge in buying wood by the barrel.

Respectfully submitted,

GEORGE H. DINAN,
Sealer of Weights and Measures.

REPORT OF THE CITY ENGINEER

OFFICE OF THE CITY ENGINEER,
CAMBRIDGE, December 1, 1905.

To the Honorable, the City Council: —

The City Engineer hereby submits his annual report, being the thirty-ninth of the Department, showing the operation and expenditures of the Engineering and Sewer Departments for the year ending December 1, 1905.

A brief summary of the year's work of the Engineering Department is as follows: —

FOR HIGHWAY DEPARTMENT.

Number of street lines given	66
Number of street grades given	145
Number of streets on which paving, curb, etc , was measured	80
Number of assessments prepared	439
Number of plans or profiles prepared	45

FOR SEWER DEPARTMENT.

Number of surveys	52
Number of lines given	436
Number of grades given	436
Number of sewers measured	53
Number of sewer assessments prepared	62
Number of sewers assessed	13
Number of plans or profiles prepared	146

FOR WATER WORKS.

Number of surveys	21
Number of lines given	312
Number of grades given	300
Number of plans or profiles made	7

FOR PARK DEPARTMENT.

Number of surveys made	4
Number of grades given	72
Number of plans or profiles made	0
Number of lines given	21

FOR PRIVATE PARTIES.

Number of street lines given	39
Number of street grades given	11

MISCELLANEOUS WORK.

Number of surveys	24
Number of houses measured	277
Number of plans or profiles prepared, tracings, etc.	17
Number of conduit plans prepared	7

There are now on file in the office 9,536 plans.

FINANCIAL.

Engineering Department.

Appropriation, Salaries	$8,900 00	
" General Expenses	900 00	
Total		$9,800 00
Expended: —		
Salary of City Engineer	$3,000 00	
Salary of assistants	5,285 94	
General expenses	878 44	
		9,164 38
Balance unexpended		$635 62

In addition to the above amount charged to salaries of assistants there have been expended and charged to departments as follows: —

To Assessors' plans	$298 79	
To Water Department	1,910 57	
To Park Department	1,017 25	
To Sewer Department	2,238 00	
To Engineering Department (as above)	5,285 94	
Total expenditure for assistants' salaries, for engineering work		$10,750 55

Classification of Salaries of Assistants.

Accounts	$395 00
Assessors' plan.— Surveys, measurements, and work on block plans for Assessors' Department	362 25
Accidents — Surveys, plans and court attendance for Law Department	65 75
Bridges.— Surveys, plans, examination and estimates	848 08
Cemetery.— Surveys and plans, setting out lots, etc , at Cambridge Cemetery	54 25
General surveys and levels.— Surveys and work on section and City plans and bench leveling	382 47
Highways.— Surveys, levels, plans, estimates, measurements and assessments for Highway Department, also lines and grades for private parties	1,536 37
Miscellaneous — Unclassified work for committees and departments, vacations and sickness	1,314 39
Parks — Surveys, lines, grades, plans and estimates for Park Department	1,017 25
Sewers — Lines, grades, plans, estimates, measurements and assessments for Sewer Department	2,594 22
Sidewalks.— Estimates, measurements, titles and assessments for Highway Department	109 12
Water Works — Surveys, lines, grades, plans and estimates for Water Works Department	1,933 65
Location plans for electric conduits, gas and water pipes, etc.	137 75
Total	$10,750 55

STREETS.

The following named streets have been laid out and accepted during the year: —

STREETS LAID OUT AND ACCEPTED DECEMBER 1, 1904, TO DECEMBER 1, 1905.

LOCATION OF STREET.						PLAN.	
Name.	From	To	Length in Feet.	Width in Feet.	Date of Acceptance.	Made by	Date.
Bolton street	Sherman street, east'rly	City land	457.0	30	April 15, 1905	City Engineer	Oct. 25, 1899
Dodge street	Western avenue	Grigg street	217.8	30	May 3, 1905	W. A. Mason & Son	July 20, 1904
Exeter park	Massachusetts avenue.	Easterly	262.5	35	Dec. 22, 1904	W. A. Mason & Son	Nov. 14, 1904
Fairview avenue	Oxford avenue	Belmont line	207 0	50	May 3, 1905	E. F. Bowker	May 13, 1904
Gurney street	Fayerweather street	Huron avenue	585.0	40	Nov. 17, 1905	Joseph H. Curtis	April 14, 1904
Harvey street	Cedar street	Massachusetts avenue.	125.0	40	Dec. 31, 1904	City Engineer	Nov. 4, 1904
Oak circle	Oak street	City line	349.5	30	Dec. 31, 1904	J. W. Pierce	Oct. 8, 1904
Oxford avenue	Fairview avenue	Belmont line	285.0	40	May 3, 1905	E. F. Bowker	May 13, 1904

Total length of streets accepted from December 1, 1904, to December 1, 1905, 2,488.8 feet, or .471 miles.
Total length of streets accepted December 1, 1905, as shown in revised list appended to this report, 99.542 miles.

LIST OF STREETS ON WHICH ACTION HAS BEEN TAKEN BY THE BOARD OF SURVEY.

Street.	From	To	Length.	Width.	Date of Approval.
Fenno street	Sherman street	Easterly	350	40	Oct. 19, 1905
Gurney street	Fayerweather street	Huron avenue	585	40	June 27, 1905
Hancock street	Franklin street	Kinnaird street	166	30	June 14, 1905
Lowland avenue	Charles street	Vine street	200	34	Oct. 19, 1905
Middlesex street	Wilson avenue	Railroad street	645	40	Oct. 19, 1905
Railroad street	Middlesex street	Yerxa road	299	40	Oct. 19, 1905
Whittemore Avenue	West of Harrison avenue	East of Magoun street	731	40	May 10, 1905
Winslow street	Garden street	Near Upland road	548	30	Oct. 19, 1905

MAIN STREET APPROACH TO THE CAMBRIDGE BRIDGE.

The Act of the Legislature authorizing the construction of the Cambridge Bridge to take the place of "West Boston Bridge" was passed May 26, 1898. July 1, 1899, the Cambridge Bridge Commission widened the portion of Main Street between the new bridge and Third Street, by taking land and making it substantially 105 feet wide. Nothing was done however toward occupying or constructing the street to the new width until this year, when the near approach of the completion of the bridge rendered it necessary to construct the approach as provided in the Act referred to above.

At the junction of Main Street and First Street the grade of Main Street is raised about eight feet. The vacant lot at the northwesterly corner of these streets was taken by the Commissioners, and First Street was deflected over a portion of the land so taken, providing for the west bound travel from First Street. This portion of the street has now been graded and paved with granite blocks and is now in use. Plans were also prepared for depressing the old portion of First Street and carrying it underneath the bridge approach by a subway or underpass,—thence through the end of the Parkway by a loop and connecting with the eastward or Boston bound travel over the new Cambridge Bridge.

The contract for constructing the abutments and bridge for this subway or underpass has been let to William Crane, who has already made good progress on the work.

A large amount of work has also been done in the construction of Main Street as widened. The old portion of the street has been paved with new paving blocks. The new connection with First Street has been graded, paved and curbed, and a large part of the southerly side of the street as widened, has been graded, paved and curb set. All of this work has been done by the Street Department men by day labor.

A sanitary sewer was laid on the northerly side of the street and both sanitary and storm water sewers were laid in the sidewalk on the southerly side.

There have been expended to date, in the construction of this street, as an approach to the Cambridge Bridge, the following sums: —

For constructing sewers	$12,841 27
For constructing street, grading, paving, curbing, etc.	17,660 15
For constructing bridge and subway on account of contract	5,733 24
	$36,234 66

The accompanying plan will give a clear view of the somewhat complicated situation at this point. The Bridge Commissioners have recently

decided to relocate the sea wall at this point on the new lines as shown on the plan, so that a considerable area will be added to the Park lands in this vicinity.

BROOKLINE STREET BRIDGE.

Acting under the authority of an Act of the Legislature, approved June 1, 1904, referred to in the last report, the Cambridge Bridge Commission have laid out a new bridge and approaches 60 feet wide in continuation of Brookline Street and have made a contract for the new bridge which is now being built. It became necessary therefore to prepare the approach to the bridge on the Cambridge side, and a contract has been made with William B. Mullen to fill and grade the approach, which work has already been commenced.

When this work is completed the dangerous grade crossing on the Boston side of the river will be abolished and an avenue of adequate width for the street railway and highway traffic provided. While the bridge is not proposed as a permanent construction, it should serve its purpose for some years.

WALDEN STREET BRIDGE.

This bridge which has been so constantly referred to in past reports is still a source of anxiety as to its safety and permanence. Many of the main members are badly corroded, and it will soon be in a dangerous condition if it is not already so. Some radical measures should be taken to reinforce the weakened parts, or a new bridge constructed in the place of the present one. It is interesting to note how much this bridge has cost for repairs since it was built in 1892.

The bridge (not including the abutments) cost in 1892, $3,634.25. Since 1897 there have been expended on this bridge for painting, repairs, renewals, etc., nearly $2,500.00. The headroom under the bridge is so small and the number of trains passing under it, both freight and passenger, is so large that the deterioration of metal from the action of the gases from locomotives is very rapid.

As a matter of ecomomy as well as safety I recommend that this bridge be replaced at an early day with a bridge of concrete-steel construction.

FIRST STREET BRIDGE ON BROAD CANAL.

At the First Street Bridge on Broad Canal several of the timbers will have to be renewed and several piles broken should be replaced.

At the other bridges little but the ordinary repairs will be needed.

RAYMOND STREET SUBWAY.

For a number of years there has been a demand for a subway or foot-pass under the Fitchburg Railroad in the line of Raymond Street, North Cambridge. The necessary appropriation in the Street Department was made for the work early in the year, and plans and specifications were prepared and a contract made with James H. Fannon of Somerville to do the work which is now nearly completed. The total cost will be about $6,500.00.

SEWERS.

BINNEY STREET SEWER CONSTRUCTION.

The reconstruction of parts of this sewer found defective, and begun in 1904, was completed this season. A section between First Street and Commercial Avenue, 250.5 feet long, was taken down and rebuilt in the same manner as referred to in the last report.

The total cost of this work done this year was $7,620.44, charged to the appropropriation for sewers, General Construction.

CAMBRIDGE STREET SEWER DISTRICT.

Work on the improved sewers in this district was begun last year, and the system as at present contemplated for immediate construction has now been completed by the construction of sewers in Cambridge, Columbia, Elm, Harding, Hunting, Norfolk, Porter, Tremont, Webster Avenue, Willow, Marion and Windsor Streets, a total length of 5,901.60 feet, and at a cost of $25,191.72. Of this sum $23,195.32 have been charged to "Separate System of Sewerage" account, and $1,996.40 charged to "Improved Sewerage" account. The total length of sewers constructed in this district in 1904, 1905, is 8,968.85 feet, and the total cost has been $41,425.11.

WASHINGTON STREET DISTRICT.

The system of separate sewers in this district begun last year was completed and sewers have been built in Moore, Clark, Windsor, Cherry, Pine, Columbia, Harrison, School and Eaton Streets, a total length of 5,737.63 feet. The amount expended this year has been $32,689.99, charged to Sewers, Construction, "Improved Sewerage."

The total length of sewers constructed in this district in 1904, 1905, has been 7,317.63 feet, and the total cost has been $52.563.97.

SEWERS CONSTRUCTED BETWEEN DECEMBER 1, 1904, AND DECEMBER 1, 1905.

Street.	From	To	Material.	Size in inches.			Number of			Ave'gc depth of cut.	Length in feet.			Cost.		Time when work was	
				Combined.	Storm.	Sanitary.	Manholes	Lamp-holes.	Inlets.		Combined.	Sanitary.	Storm.	Per foot.	Total.	Begun.	Finished.
Marle ave	Highland ave	Maple ave	Akron pipe	.....	10	8	1	2	40	8.5	.....	268.10	266.00	$2 80	$750 83	Dec. 1, 1904	Dec. 16, 1904
Pine st	Washington st	Harvard st	" "	.....	12-10	8	2	.....	89	9	.....	528.30	528.90	4 43	2,343 03	Dec. 1, 1904	Dec. 23, 1904
*Potter st	Sixth st	Fifth st	" "	.....	12-10	8	1	.....	69	10	.....	438.60	438.60	.....	4,131 20	Dec. 1, 1904	Apr. 25, 1905
Cambridge st	Near Webster ave	Tremont st	" "	.....	.....	8	1	.....	14	9	.....	650.80	.....	2 33	1,514 29	Dec. 1, 1904	Dec. 21, 1904
Sixth st	Near Broad Canal	Broad Canal	" "	.....	12	8	5	.....	68	17.5	.....	1238.35	.....	8 44	10,452 67	Dec. 1, 1904	June 22, 1905
Marion st	Jefferson st	Cambridge st	" "	.....	.....	8	1	.....	2	8	.....	43.30	53.50	See Potter st.		Dec. 1, 1904	Apr. 16, 1905
Cherry st	Washington st	Southerly	" "	.....	.....	8	.....	1	12	9	.....	244.20	.....	2 87	700 05	Dec. 15, 1904	Apr. 20, 1905
Eaton st	Cherry st	Pine st	" "	.....	12-10	8	2	.....	67	9	.....	375.00	375.00	3 32	1,245 00	Mar. 27, 1905	Apr. 15, 1905
Cherry st	Washington st	Northerly	" "	.....	10	8	1	.....	23	8	.....	122.90	122.90	4 21	550 94	Apr. 10, 1905	Apr. 17, 1905
Harding st	Cambridge st	Somerville line	" "	.....	12-10	8	2	.....	82	9	.....	496.50	499.50	3 32	1,660 22	Apr. 17, 1905	May 6, 1905
Windsor st	Washington st	School st	" "	.....	.....	8	2	1	45	11	.....	568.90	.....	2 38	1,356 14	Apr. 26, 1905	May 13, 1905
Franklin st	Sidney st	M. H. to M. H	" "	.....	.....	8	1	1	27	7	.....	315.45	.....	2 55	804 40	May 5, 1905	May 12, 1905
Windsor st	Washington st	Harvard st	" "	.....	10	.....	.....	.....	.....	7	.....	.....	10.00	1 50	15 00	May 11, 1905	May 12, 1905
Hunting st	Cambridge st	Somerville line	" "	.....	.....	8	1	1	41	9	.....	420.35	.....	2 55	1,068 28	May 11, 1905	May 24, 1905
Clark st	Washington st	Northerly	" "	.....	.....	8	3	.....	47	10	.....	556.70	.....	2 11	1,179 48	May 12, 1905	June 2, 1905
Columbia st	Cambridge st	Northerly	" "	.....	.....	8	1	1	38	10	.....	398.40	.....	3 56	1,338 62	May 18, 1905	June 1, 1905
†Clark st	Washington st	Southerly	" "	.....	.....	8	.....	.....	2	12	.....	29.00	.....	2 88	93 52	May 24, 1905	June 5, 1905
Willow st	Cambridge st	Somerville line	" "	.....	.....	8	1	.....	25	10	.....	261.00	.....	3 36	874 83	May 26, 1905	June 14, 1905
Athenæum	East of Second st	Second st	" "	12	.....	8	3	1	62	9	.....	541.40	.....	2 77	1,504 66	June 1, 1905	June 14, 1905
Harrison st	Near Washington st	School st	" "	.....	.....	8	1	.....	15	11	218.20	.....	.....	**7 79	1,701 15	June 8, 1905	June 30, 1905
†School st	Harrison st	Austin st	" "	.....	15	.....	.....	.....	15	15	.....	173.35	.....	9 59	1,669 23	June 9, 1905	June 23, 1905
Windsor st	Cambridge st	Somerville line	" "	.....	.....	8	2	.....	62	13	.....	1525.90	.....	8 90	12,627 90	June 9, 1905	Nov. 4, 1905
Moore st	Washington st	Harvard st	" "	.....	.....	8	3	.....	45	8	.....	511.90	.....	2 81	1,439 85	June 12, 1905	June 29, 1905
Columbia st	Webster ave	Somerville line	" "	.....	.....	8	1	.....	24	10	.....	333.00	.....	3 30	1,098 90	June 19, 1905	July 1, 1905
Columbia st	Washington st	Harvard st	" "	.....	.....	8	2	.....	34	10.5	.....	427.00	.....	2 88	1,123 25	June 29, 1905	July 11, 1905
Holyoke st	Mt. Auburn st	Winthrop street	" "	10	.....	.....	.....	.....	45	10	.....	566.65	.....	2 73	1,574 39	June 29, 1905	July 15, 1905
Stiles st	Banks st	Parkway	" "	.....	.....	8	1	.....	10	10	198.00	.....	.....	3 61	715 11	June 29, 1905	July 8, 1905
Elm st	Cambridge st	Somerville line	" "	.....	10	8	1	.....	35	11	.....	259.40	259.40	4 54	1,178 91	July 10, 1905	July 26, 1905
Columbia st	Austin st	Washington st	" "	.....	.....	8	2	.....	55	10	.....	393.90	.....	2 97	1,017 65	July 10, 1905	July 21, 1905
Norfolk st	Cambridge st	Somerville line	" "	.....	.....	8	1	1	40	10	.....	435.63	.....	2 78	1,211 05	July 18, 1905	July 25, 1905
§Holden st	Kirkland st	Scott st	Concrete and brick	.....	.....	8	2	.....	38	12	.....	456.40	.....	2 79	1,272 75	July 19, 1905	Aug. 1, 1905
			Akron pipe	.....	12-10	24x32	3	.....	92	11	.....	786.10	757.50	8 87	20,171 39	July 26, 1905	Sept. 27, 1905
Pins st	School st	Washington st	" "	.....	12-10	8	2	.....	76	9.5	.....	426.60	426.60	4 43	1,892 18	July 28, 1905	Aug. 19, 1905
Tremont st	Cambridge st	Somerville line	" "	.....	.....	8	2	.....	35	12	.....	445.60	.....	3 45	1,541 01	Aug. 1, 1905	Aug. 19, 1905
Moore st	School st	Washington st	" "	.....	10	8	1	.....	33	10	.....	216.40	216.40	3 30	722 67	Aug. 15, 1905	Aug. 23, 1905
Main st., southerly side	Wadsworth st	Charles River	Concrete and brick	.....	24x26	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
			Akron pipe	.....	15-12-10	8	5	.....	79	10.5	.....	1115.85	1334.00	††	12,871 47	Aug. 28, 1905	Dec. 1, 1905
Main st., northerly side	Broadway	Near First st	" "	.....	15-12-10	.....	1	1	39	6	.....	.....	971.50	.....		Aug. 30, 1905	Sept. 17, 1905
Bryant st	Scott st	Irving st	" "	.....	10	24x32	2	.....	36	10	.....	449.90	300.40	See Holden st.		Sept. 18, 1905	Oct. 28, 1905
Norton Est., private land	Bryant st	Museum st	Concrete and brick	.....	.....	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Austin st	School st	Columbia st	Akron pipe	.....	.....	21x28	3	.....	44	17	.....	904.20	.....	See Holden st.		Sept. 19, 1905	Nov. 28, 1905
Hawthorne ave	Brattle st	Northerly	" "	.....	.....	15	1	.....	2	11	.....	83.50	.....	See School st.		Oct. 27, 1905	Nov. 9, 1905
Douglass ct	Douglass st	Westerly	" "	12-10	.....	.....	3	.....	30	10	681.40	.....	.....	1 70	1,161 46	Nov. 2, 1905	Nov. 23, 1905
Carver st	Museum st	Hammond st	Concrete and brick	.....	.....	8	1	.....	19	9	.....	134.20	134.20	1 62	217 27	Nov. 7, 1905	Nov. 11, 1905
‖Valentine st	Brookline st	Westerly	Akron pipe	.....	10	16x21	2	.....	10	10	.....	133.00	133.00	See Holden st.		Nov. 14, 1905	Dec. 1, 1905
¶Washington st	Portland st	Columbia st	" "	.....	.....	8	.....	.....	12	10	.....	167.30	.....	1 28	213 50	Nov. 27, 1905	Dec. 1, 1905
															2,006 35		

* Cost includes cost of Sixth street and stock purchased in 1904 too late to be reported in 1904 report.
† Includes cost of rebuilding about 261 feet of old sewer with 12-inch Akron pipe.
‡ Includes cost of rebuilding about 400 feet of old 25x29-inch sewer.
§ Includes cost of building sewer in Bryant and Carver streets and private land.
‖ Sewer uncompleted, will include sewer in private land and Pearl terrace.
¶ To be added to cost as reported in 1904 to give total cost of construction.
** Includes cost of pile foundation.
†† Includes cost of 1079 feet of pile foundation.

HOLDEN AND CARVER STREET DISTRICT.

As recommended in the special report on the sewerage of the City in 1898, a main trunk sewer was constructed from the Metropolitan sewer on Portland Street through Hampshire, Cambridge and Baldwin Streets to Kirkland Street at Holden Street.

In order to carry this sewer to the area about Carver and Sacramento Streets it was necessary to cross the private lands of Professor Charles E. Norton, *et als.*

By an arrangement with the owners a right of way for this sewer was granted the City and the main sewer has been carried through Holden Street, Bryant Street and across the lands mentioned and through Carver Street to Wendell Street, thus affording an outlet for the low lands in this vicinity needing improved drainage facilities. Two thousand two hundred and seventy-three and two-tenths feet of sewer have been built at a cost of $20,171.39.

This system should be extended the coming season, so that all the streets in this section may be provided with separate sewers.

GENERAL SEWER CONSTRUCTION.

The total length of sewer conduit constructed during the year was 4.489 miles, making the total mileage in the City 130.726 miles. The total length of streets newly sewered during the year has been 0.818 miles, making the total mileage of streets sewered with one or more conduits 114.505 miles. The total cost of the sewer construction has been $1,922,358.54.

Sewers have been built in sundry streets on petition by owners, as shown by the annexed schedule.

Twenty-one catch-basins have been built at a cost of $1,670.85. In addition ten new catch-basins have been built on Main Street and charged to Cambridge Bridge, sewer account.

MAINTENANCE.

The usual care has been given the sewers of the City and their appurtenances, except in the matter of flushing. Application has been made to the Water Board for the necessary water to properly flush and cleanse the sewers but owing to the great scarcity of the supply this request was not granted. It is hoped that the coming year a thorough flushing of the sewers may be given.

Sixty catch-basins have been repaired at a cost of $976.94. Five thousand two hundred thirteen loads of material have been removed from 2,169 catch-basins during the year at a cost of $6,089.69.

The need of a shed and tool house at the sewer yard has long been felt for the proper housing of tools, carts and materials. Work by the day was begun on the erection of such a building in the early fall, and is now being carried on so that in a short time it will be ready for occupancy.

Eighteen persons have been licensed as drain-layers during the year. Permits have been granted for sewer repairs or connections as follows: —

For repairs	99	permits
" connection to combined sewers	115	"
" " " sanitary sewers	24	"
" " " storm sewers	11	"

A total of 150 permits for connections and 99 for repairs.

The results obtained from the automatic sewer registers at the various connections with the Metropolitan Sewer to date are shown in the following statement: —

STATEMENT SHOWING RESULTS OBTAINED FROM RECORD OF AUTOMATIC REGISTERS AT VARIOUS CONNECTIONS WITH THE METROPOLITAN SEWER.

Year.	Regulators: Binney St. at Portland St.				Regulators: Mass. Ave. at Alewife Brook.				Regulators: Mt. Auburn St. at Lowell St.				Tide gates: Binney St at Outlet.		Tide gates: Bath St. at Outlet.		Tide gates: Lowell St. Outlet.	
	Hours shut.	Per cent. of total time.	Hours of partial closure.	Per cent. of total time.	Hours shut.	Per cent. of total time.	Hours of partial closure.	Per cent. of total time.	Hours shut.	Per cent. of total time.	Hours of partial closure.	Per cent. of total time.	Hours open.	Per cent. of total time.	Hours open.	Per cent. of total time.	Hours open.	Per cent. of total time.
To December 1, 1899	h. m. 606 45	6.93	h. m.	.....	h. m.	.....	h. m.	.....	h. m.	.....	h. m.	.....	h. m. 248 00	2.83	h. m. 569 00	6.50	h. m.	.....
1900	569 30	6.50	.....	.....	387 8	4.42	.....	.....	.....	.....	.....	.....	291 10	3.32	315 25	3.60	.....	.....
1901	418 40	5.03	.....	.....	587 30	6.74	.....	.....	.....	.....	.....	.....	217 20	2.48	209 00	2.39	.....	.....
1902	609 40	6.90	.....	.....	*573 00	6.50	.....	.....	.....	.....	.....	.....	§123 20	1.55	.....	.....	.....	.....
Dec. 1, 1901, to Jan. 14, 1902	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	29 35	2.77	.....	.....
Jan. 29, 1902, to Dec. 1, 1902	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	164 35	2.24
Dec. 1, 1902, to Dec. 1, 1903	696 55	7.95	.....	.....	†272 20	3.11	.....	.....	.....	.....	867 45	9.91	220 40	2.52	.....	.....	138 5	1.57
Dec. 1, 1903, to Dec. 1, 1904	559 30	6.37	444 05	5.07	376 40	4.28	238 20	2.71	44 20	0.52	359 50	4.09	‡134 25	1.53	.....	.....	191 0	2.17
Dec. 1, 1904, to Dec. 1, 1905	190 15	2.17	149 45	1.71	123 30	1.41	479 00	5.40	¶	.....	¶	.....	96 00	1.09	.....	.....	¶	.....

* The time here given is for a complete closing of the regulators. In addition to this the records show a partial closure for 1,216½ hours during the year.
§ From July 12, 1902, to August 14, 1902, no records were obtained from this register, as the gates were undergoing repairs.
† The time here given is for a complete closing of the regulator. In addition to this the records show a partial closure for 1,328 hours during the year.
‡ No record obtained from February 5, 1904, to March 29, 1904.
¶ Record incomplete.

The following table shows some of the maximum rates of rainfall during the past year as recorded by the automatic rain gage maintained at the City Hall: —

Date.	Total Rainfall.			Maximum Rate Rainfall.			
	Period.	Length of Time.	Amount in Inches.	Period.	Length of Time.	Amount in Inches.	Rate Per Hour in Inches.
		hr. min.			hr. min.		
Apr. 5 and 6, 1905	3.00 p.m. to 4.00 a.m.	13 40	1.60	3.50 a.m. to 3.58 a.m.	0 8	0.15	1.20
Apr. 21 and 22, 1905	5.00 p.m. " 2 30 a.m.	9 30	0.44	11.07 p.m. " 11.15 p m.	0 8	0.12	0.90
May 18, 1905.....	6.40 p.m. " 9.00 p.m.	2 20	0.67	6.50 p.m. " 6.55 p.m.	0 5	0.10	1.20
May 30, 1905.....	2.00 a.m. " 3.00 a.m.	1 00	0.22	2.00 a.m. " 2.10 a.m.	0 10	0.17	1.00
June 12, 1905.....	9.00 a.m. " 7.00 p.m.	10 00	0.97	1.00 p.m. " 1.20 p.m.	0 20	0.23	0.70
	18th 19th						
June 18 and 19, 1905	3.53 p.m. " 4.00 p.m.	24 07	0.84	3.53 p.m. " 4.00 p.m	0 07	0.12	1.00
June 26, 1905.....	2.15 p.m. " 2.40 p.m	0 25	0.34	2.15 p.m. " 2.40 p.m.	0 25	0.34	0.82
July 14, 1905.....	6.00 p.m. " 11.40 p.m.	5 40	0.40	6.00 p.m. " 6 02 p.m.	0 02	0.10	3.00
				8.15 p.m. " 8.30 p.m.	0 15	0.22	0.88
Aug. 2, 1905.....	2.55 p.m. " 4.00 p.m.	1 05	0.11	2.55 p.m. " 3.00 p.m.	0 05	0.09	1.08
Aug. 12, 1905.....	11.40 a.m. " 4.00 p.m.	4 20	1.00	11.40 a.m. " 12.00 m.	0 20	0.80	2.40
				12.25 p.m. " 12.28 p.m.	0 03	0.10	2.00
				3.40 p.m. " 3.45 p.m.	0 05	0.14	1.68
Aug. 22, 1905.....	6.35 p.m. " 6.40 p.m.	0 05	0.15	6.35 p.m. " 6.40 p.m.	0 05	0.15	1.80
Sept 2 to 4, 1905...	2d 4th		6.65	3d 3d			
Sept. 2 to 4, 1905...	11.00 p m. " 12.00 m.	37 00		9.35 p.m. " 9.45 p.m.	0 10	0.28	1.68
	28th 29th			29th 29th			
Nov. 28 and 29, 1905	11.00 p.m. " 10.00 p.m.	23 00	1.25	7.20 p.m. " 7.25 p.m.	0 05	0.13	1.56

FINANCIAL.

Maintenance: Appropriation		$18,000 00
Expended: —		
Catch basin repairs and opening	$976 94	
Cleaning catch basins	6,089 69	
Cleaning and repairing gates	1,262 31	
Cleaning sumps	121 63	
Cleaning and flushing sewers	480 20	
Manhole repairs	88 72	
General expense	4,745 71	
Office expense	436 45	
Sewer repairs	688 72	
Stable account	1,792 36	
Shed at sewer yard (new)	969 86	
Total		17,652 59
Balance		$347 41
Construction General: Appropriation		$20,000 00
Expended: —		
Sixth Street	$1,047 77	
Potter Street	3,083 43	
Marie Avenue	750 83	
Binney Street	7,620 44	
Athenaeum Street	1,701 15	
Holyoke Street	715 11	
Stiles Street	1,178 91	
Hawthorne Avenue	1,161 46	

Douglass Court	217 27	
Valentine Street	213 50	
New catch basins	1,670 85	
General expense	479 40	
		19,840 12
Balance		$159 88
Improved Sewerage: Appropriation		$61,296 16
Expended:—		
Washington Street	$2,006 35	
Pine Street	4,235 21	
Cherry Street	2,905 22	
Eaton Street	559 94	
Windsor Street	1,872 68	
Clark Street	2,213 45	
Moore Street	1,814 57	
Harrison Street	1,669 23	
Columbia Street	2,785 44	
School Street	12,627 90	
Holden and Carver Street District	20,171 39	
Franklin Street District (finishing)	72 36	
Cambridge Street District	1,996 40	
Execution of Superior Court on account of injury to Michael Healy	550 00	
		55,480 74
Balance		$5,815 42
Separate System: Appropriation		$30,448 74
Expended:—		
Cambridge Street	$10,452 67	
Jefferson Street	1,514 29	
Marion Street	700 05	
Harding Street	1,356 14	
Hunting Street	1,179 48	
Willow Street	1,504 66	
Columbia Street	1,216 77	
Norfolk Street	1,272 75	
Elm Street	1,017 65	
Windsor Street	1,439 85	
Tremont Street	1,541 01	
		23,195 32
Balance		$7,253 42

Receipts (Sewer Assessments), $6,798.46.

The following statement shows the amount of the appropriations (met by special loans outside the City debt limit) and the amounts expended each year on Improved Sewer and Separate System Constructions since the work first began:—

	Improved Sewer Construction.		Separate System Construction.	
	Appropriation.	Expended.	Appropriation.	Expended.
1899	$100,000 09	$42,989 24	.....	.....
1900	99,010 76	73,619 11	.....	.....
1901	125,391 65	76,546 14	.....	.....
1902	68,845 51	61,997 27	.....	.....
1903	47,848 24	47,821 13	.....	.....
1904	47,027 11	35,730 95	$25,000 00	$19,551 26
1905	61,296 16	55,480 74	30,448 74	23,195 32
Totals		$394,184 58		$42,746 58

The Metropolitan sewer tax assessed on Cambridge for the year 1905 is as follows: —

Sinking Fund requirements	$12,826 03
Interest account	48,377 95
Maintenance and operation	28,137 02
	$89,341 00

WATER WORKS.

The statement showing the condition of the water in the various reservoirs is here repeated as a ready means of comparison.

Year.	*Annual Rainfall.	FRESH POND. Elevation of High Water, 16.85.				STONY BROOK BASIN. Elevation of Crest of Dam, 81.00.						HOBBS BROOK BASIN. Elevation of Crest of Dam, 181.00.			
		Highest Water.		Lowest Water.		Highest Water.		Lowest Water.		No. of days water wasted over dam	Number of Gallons Wasted	Highest Water.		Lowest Water.	
		Date.	El.	Date.	El.	Date.	El.	Date.	El.			Date.	El.	Date.	El.
1870	41.53	April 21	16.85	Nov. 22	12.44										
1871	40.09	May 8	15.32	Oct. 5	12.68										
1872	51.98	Oct. 1	16.17	Dec.19,'71	13.00										
1873	46.10	April 2	16.55	Nov. 7	12.52										
1874	41.87	June 8	15.24	Nov. 27	11.80										
1875	51.46	June 24	12.60	Feb. 23	8.97										
1876	43.60	May 31	13.27	Jan. 6	10.60	Conduit from Fresh to Little Pond completed.									
1877	48.93	April 7	16.31	Oct. 4	12.05	Filter gallery built at Little Pond—Water drawn to Fresh Pond from Oct 11 to end of year.									
1878	50.99	May 1	16.43	Nov. 17	13.54	Water admitted to Fresh Pond through conduit from July 26 to the end of the year.									
1879	39.64	May 1	15.80	Nov. 28	12.11										
1880	33.31	April 5	13.08	Nov. 30	8.34	Water admitted to Fresh Pond through conduit from Sept. 28 to the end of the year.									
1881	42.85	April 18	16.04	Feb. 9	7.73										
1882	39.62	Mar. 28	15.87	Nov. 30	10.69										
1883	29.75	April 14	11.93	Nov. 26	5.91	Water admitted to Fresh Pond through conduit from Jan 24 to April 13.									
1884	46.07	April 27	14.08	Jan. 1	5.54	Water admitted to Fresh Pond through conduit from Jan. 16 to April 10.									
1885	48.98	May 4	10.61	Oct. 29	5.95	Water admitted to Fresh Pond through condnit from Feb. 10 to Mar. 2.									
1886	46.12	May 12	13.74	Dec. 1	6.62	Water admitted to Fresh Pond through conduit from Jan. 13 to Mar. 31. Gonduit abandoned 1887.									
1887	43.99	May 1	8.00	Nov. 5	3.32	Aug. 15	75.00	Jan. 22	†51.70						
1888	60.01	May 13	16.25	Jan. 1	9.66	Mar. 22	83.40	Dec.11,'87	72.43	244	7,315,800,000				
1889	60.08	Jan. 8	16.62	Oct. 12	13.72	Dec.19,'88	82.91	July 2	80.75	363	10,202,600,000				
1890	49.32	April 10	16.74	July 27	13.69	Mar. 24	82.40	Sept. 6	71.66	302	8,929,800,000				
1891	49.11	Mar. 24	16.78	Aug. 26	12.19	Jan. 23	83.31	Nov. 10	72.20	209	8,214,400,000				
1892	41.17	May 23	16.64	Aug. 3	12.29	Mar. 11	82.80	Nov. 10	69.56	202	3,804,100,000				
1893	39.52	May 5	17.07	Nov. 3	11.67	Mar. 15	82.83	Sept. 9	64.50	133	4,735,800,000				
1894	35.66	June 1	17.15	Sept. 18	10.65	Mar. 7	82.24	Oct. 25	68.40	164	2,852,600,000				
1895	49.72	June 2	17.30	Sept. 15	11.44	April 15	82.56	Dec.11,'94	74.80	224	5,304,200,000				
1896	41.77	April 27	16.49	Nov. 24	10.95	Feb. 7	83.30	Sept. 5	66.13	225	5,852,700,000				
1897	43.35	June 11	17.34	Dec. 1, '96	11.41	Mar. 25	82.00	Nov. 1	71.02	256	4,016,600,000				
1898	53.09	May 2	17.35	Oct. 19	15.23	Feb. 22	82.27	Aug. 5	75.42	260	5,704,600,000	Oct. 27	181.53	Dec.16,'97	‡159.00
1899	44.96	Jan. 27	17.15	Sept. 19	13.17	Mar. 6	82.25	July 8	75.30	175	6,969,500,000	Mar. 20	181.27	Nov. 30	175.93
1900	51.29	April 23	17.46	Sept. 16	13.96	Mar. 2	82.81	July 9	77.04	145	4,447,100,000	Mar. 17	181.85	Jan. 10	175.10
1901	46.87	May 25	17.62	Nov. 17	14.45	April 8	82.54	Feb. 26	78.10	159	6,073,150,000	April 8	181.85	Dec. 1, '00	177.30
1902	44.58	April 14	17.24	Nov. 30	13.45	Mar. 1	83.92	July 8	79.00	182	6 567,175,000	Mar. 2	182.15	Oct. 27,'02	178.28
1903	45.95	April 20	14.64	Nov. 29	11.50	June 21	82.62	June 1	79.82	222	6,437,500,000	June 22	181.75	Dec. 1,'02	178.48
1904	41.18	June 4	17.09	Mar. 1	9.42	April 29	83.15	July 16	79.73	175	5,663,800,000	April 29	182.00	Nov.13,'04	178.50
1905	38.40	Dec 28	16.10	Aug. 4	9.69	Mar. 26	82.27	Mar. 7	§79.17	147	3,166,800,000	Mar. 28	181.73	Dec.27,'04	178.08

* Record of annual rainfall taken at Harvard Observatory during the years 1870 to 1879 inclusive, at Fresh Pond from 1880 to 1889, and at Stony Brook from 1890 to 1905.

† The water gates at Stony Brook Dam were first closed June 9, 1887, with water at elevation 58.80. Water was formally introduced into Fresh Pond Nov. 15, 1887, and first flowed over dam Jan. 3, 1888.

‡ The water gates at Winter St. Dam were first closed Dec. 16, 1897. The basin filled in 247 days and water first flowed over dam Aug. 20, 1898.

§ The water was first let on to the new conduit line, Fresh Pond to Watertown, Nov. 2, 1905.

Water wasted over the Stony Brook Dam as follows: —

December, 1904	650,000 gallons
January, 1905	399,050,000 "
February, 1905	300,000 "
March, 1905	1,248,000,000 "
April, 1905	1,041,150,000 "
May, 1905	125,350,000 "
June, 1905	107,450,000 "
July, 1905	100,000 "
August, 1905	
September, 1905	243,900,000 "
October, 1905	
November, 1905	

Total amount passing the dam during the year 3,166,800,000 gallons

TABLE: SHOWING COMPARISON BY MONTHS OF THE TOTAL PRECIPITATION AT STONY BROOK BASIN, HOBBS BROOKS BASIN, HARVARD OBSERVATORY AND CAMBRIDGE CITY HALL; ALSO THE NUMBER OF DAYS IN WHICH RAIN FELL AT CITY HALL, DECEMBER 1, 1904, TO DECEMBER 1, 1905.

Point of Observation.		1904.	1905.										
		Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Total.
Stony Brook Basin.	Total Precipitation.	2.94	5.33	1.62	3.46	2.48	1.59	5.38	1.89	3.11	7.09	1.24	2.27	38.40
Hobbs Brook Basin.	Total Precipitation.	2.06	4.54	1.65	3.27	2.67	1.32	5.90	2.10	3.40	7.45	1.43	2.17	37.96
Harvard Observatory.	Total Precipitation.	2.64	6.13	1.90	2.86	2.63	1.53	4.30	1.07	3.04	5.99	1.23	2.24	35.56
City Hall.	Total Precipitation.	3.25	5.43	1.59	3.21	3.05	1.88	4.80	0.93	3.59	7.27	1.86	2.36	39.22
	Number of days in which rain fell	7	9	5	8	6	9	10	4	14	6	4	4	86

The construction of the new conduit line from Fresh Pond to Watertown by the Water Board necessitated a large amount of work by the department in locating and laying out the conduit. Two parties of three assistants each were engaged the most of the summer on this work, the cost of which, $1,981.31, was charged to and paid by the Water Department.

The total length of conduit constructed was 12,129.35 feet, mostly constructed of concrete having a bore of 63 inches diameter.

PARK DEPARTMENT.

A considerable amount of miscellaneous work has been done for the Park Department the past year. The filling of Commercial Avenue has

TABLE SHOWING RAINFALL AT STONY BROOK BASIN AT WESTON, AT HOBBS BROOK BASIN IN WALTHAM, AND THE CITY HALL AND HARVARD OBSERVATORY, CAMBRIDGE, DECEMBER 1, 1904, TO DECEMBER 1, 1905.

Day of Month	DECEMBER, 1904.				JANUARY, 1905.				FEBRUARY.				MARCH.				APRIL.				MAY.				JUNE.				JULY.				AUGUST.				SEPTEMBER.				OCTOBER.				NOVEMBER.				Day of Month
	Stony Brook.	Hobbs Brook.	City Hall.	Harvard Observ.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	S. B.	H. B.	C. H.	H. O.	
1																								T								0.30	0.40	0.20	0.32				T							T	1
2							0.05	T																						0 15		0.05			0.11	0.01				T				T				2
3					0.30	0.40	0.45	0.38																				0.01	0.60	0.35	0.13	0.25	0.18			0.07		1.10	4.50	1.22		0.10	0.11	0.07					3
4					1.31	0.85	0.90	1.23					0.05			0.02				T				T													6.05	4.70	2.15	4.05					0.70	0.60	0.79	0.80	4
5			0.20					0.09										0.22	0.25	0.21																	0.36	0.40		0.08									5
6	0.20	0.18		0.19			0.35	0.09	0.90	0.65	0 72	0 59					1.44	1.30	1.60	1.36	0.02			0.04		0.40	0.45	0.15										0.10	0.06			0.25	0.04	6
7					1.75	1 90	1.55	1.78				0.41									0.10		0.15	0.13	0.38		0.45	0.21											0.05				0.35	0.40		0.25	7
8			0.09	T				*0.13				T	0.79	0.33	1.00	0.33									0.51	0.65	0.13	0.05											T					0.05		0.02	8
9		0.02		0.02							0.37	0.08	0.55	0.67	0.25	0.50					0.05	0.10	0.07	0.08						0.25				0.20	0.17											9
10									0.37	0.45	0.05	0.27	0.42	0.35	0.15	0.38													0.10	0.10		0.03	0.20		0.02	0.16											10
11																			0.68	0.53									0.10			0.01		0.10	0.11	0.04			0.07				0.22				11
12						0.60	0.60	0.14									0.67	0.70		0.09			0.04	0.04			0.97	0.16					0.08	0.40	1.00	0.08			0.25	0.29	0.29	0.25	0.09	0.22					12
13	0.24	0.13	0.44	0.25	0.68			0.40	0 35	0.55	0.45	0.53									0.07			T	1.44	1.25		0.62	0.03	0.20			0.31			0.10	0.34	0.55		0.05								13
14																			0.03				0.10						0.48	0.60	0.40	0.09													T	14
15																				T	0.13	0.15	0.10	0.09								0.48			0.50								0.07			15
16				0.01																	0.16	0.10	0.10	0.09									0.63	0.95	0.35	0.67			T				0.12		0.09	16
17																					0.08	0.08	0.43	0.14						0.15		0.05	0.20			0.14		0.07		0.01							17
18	0.86	0.32	0.90	0.64											0.12						0.35	0.32	0.67	0.31			0.18	0.02											T								18
19													0.05	0.13	0.01						0.35	0.35		0.47		0.65	0.66	0.72									0.20	0.18	0.24	0.15		0.10		0.04					19
20												T	0.24	0.20		0.23			0.05						1.08	0.12		0.32	0.18			0.02				0.14	0.15		0.01	0.58	0.10	1.44	0.72					20
21				T								0.02			0.92				0.44	0.03						0.75	0.85	0.02									0.20		0.08	0.35	0.80		0.16					21
22						0.25	0.13	0.07					0.75	0.80		0.97	0.37	0.45		0.41						0.80	1.13		0.82							0.15												22
23				T	0.25			0.05																		0.40	0.40	0.46	0.32				0.01	0.05			0.23										23
24																T																																24
25							1.35	0.44					0.26	0.40	0.55	0.22																			0.40	0.26	0.24						0.02	0.08		0.02	0.16			0.02	25
26																										0.13	0.40	0.46	0.09					0.29														26
27			0.02	0.02	1.04	0.50		1.30					0.38	0.42		0.14										0.44	0.15	0.19	0.10				T		0.30	0.09	0.47										27
28			0.57	0.51												T						0.15		0.05		0.19		0.19					0.31														28
29	1.59	1.41	1.03	1.00		0.04	0.05	T													0.15					0.19							0.11	0.15	0.11	0.09					0.45	0.50	1.25	0.45	29
30	0.05			T				0.03								T										0.01																	0.61	0.50		0.57	30
31															0.09																																31
								0.06					0.07			0.06																																
Total	2.94	2.06	3.25	2.64	5.33	4.54	5.43	6.13	1.62	1.65	1.59	1.90	3.46	3.27	3.21	2.86	2.48	2.67	3.05	2.63	1.59	1.32	1.88	1.53	5.38	5.90	4.80	4.30	1.89	2.10	0.93	1.07	3.11	3.40	3.59	3.04	7.09	7.45	7.27	5.99	1.24	1.43	1.86	1.23	2.27	2.17	2.36	2.24	Total

* Estimated.

been completed to the Lechmere Canal and a large amount of filling and grading done on the East Cambridge Embankment land adjacent. There now remains about 20,000 square feet of unfilled land in this tract. Loam and trees have also been placed on the easterly side of the avenue. On the Charles River Parkway for a distance of about 2,000 feet westerly from Main Street, the gravel was removed from the central portions to sub-grade and then the surface brought to grade with clay and loam. The roadways and walks were also brought to grade and finished. Grading and finishing was also done between Brookline Street and Magazine Street and between Flagg Street and Akron Street.

At Rindge Field the surface for a distance of about 200 feet from Rindge Avenue was graded and walks built.

At the yard of the Rindge Manual Training School a playground and running track was constructed.

The present organization of the Engineering Department is as follows: —

City Engineer,
LEWIS M. HASTINGS.

Principal Assistant,
GEORGE DAVIS.

Assistants,
HENRY T. BURRAGE, office assistant and draughtsman.
G. FRANK HOOKER, in charge of Street work.
FRANK B. WILLIAMS, in charge of Sewer work.
FREDERIC E. EVERETT, in charge of Park work.

Transitmen,
GIDEON H. CLOYES, JR. RAY L. COOLIDGE.

Rodmen,
FRED H. BURKE, EDGAR W. DAVIS, LEWIS E. DANIELS.

Clerk and Stenographer,
MARY E. ROWEN.

Superintendent of Sewers,
THEODORE L. PIKE.

Two temporary assistants in addition have been employed in the department and seven assistants have been employed on Water Works construction during the year.

Respectfully submitted,
L. M. HASTINGS,
City Engineer.

LIST OF STREETS AND WAYS IN THE CITY OF CAMBRIDGE, DEC. 1, 1905.

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Aberdeen Av'nue		Mt. Auburn	Huron av	100	1280	1895	
Acacia		Hawthorn	Ash	40	312	1880	
Acorn		Putnam av	Chestnut	40	300	1875	
Agassiz		Linnaean	Lancaster	40	374	1886	
	Akron	Banks	Parkway	40			233
Albany		Main	Erie	50	3430	1884 1889 1899	
	Albro	Blackstone	Parkway	40			330
Allen		Mass. av	Orchard	30	304	1896	
Allston		Waverly	Magazine	40	1720	1871 1877	
	Allston Court	Allston	Southerly	12			87
Alpine		Concord av	Field	50	337	1896	
	Ames	Main	Esplanade	80			538
Amherst		Wadsworth	Endicott	60	3685	1900 1902	
	Amherst	Endicott	Vassar	60			2670
Amory		Broadway	Hampshire	40	1333	1880	
	Amory Place	Amory	Westerly	20			120
Andrew		Fairmont	Somerset	30	431	1899	
Antrim		Broadway	Inman sq	40	1342	1873	
Appian Way		Brattle	Garden	30	478	1800	
Appleton		Brattle	Vassal lane	45	1437	1866	
Appleton		Vassal lane	Concord av	40	630	1893	
	Appleton Ter'ce	Appleton	Easterly	10			120
	Arcadia	Eustis	Harris ct	30			173
Arlington		Mass. av	Washington av	40	1107	1874	
	Arnold Circle	Mass. av	Northerly	20			150
Arrow		Mass. av	Bow	*30	430	†1635	
Arsenal Square		Chauncy	Concord av			1871	
Ash		Brattle	Mt. Auburn	31	604	1635	
Ash		Mt. Auburn	Southerly	30	308	1900	
	Ashburton Place	Essex	Easterly	20			148
	Ashton Place	Irving	Westerly	25			200
Athenæum		First	Second	50	399	1902	
Athens		Mt. Auburn	Southerly	40	297	1874	
	Athens Terrace	Athens	Easterly	20			120
	Auburn	Blanche	Sidney	40			261
Auburn		Sidney	Western av	40	1806	1836 1874	
Austin		Main	Inman	49	2085	1830	
	Austin Place	Austin	Southerly	14			99
Avon		Shepard	Linnaean	35	842	1864	
Avon Hill		Linnaean	Upland rd	40	1280	1882 1893	
	Avon Place	Avon Hill	Easterly	20			256
	Bacon Court	Gore	Northerly	12			200
	Bailey Place	Magazine	Easterly	14			135
Baldwin		Cambridge	Kirkland	40	1098	1853	
	Baldwin Place	Main	Northerly	15			140
	BaldwinSt.Court	Baldwin	Easterly	13			165
	Ballord	Putnam av	Montague	30			173
	Bancroft	Western av	Gilmore	40			386
Banks		Mt. Aubnrn	Sands	40	1896	1874	
Bates		Avon Hill	Raymond	40	356	1887	
Bay		Mass. av	Kinnaird	40	580	1874	
Bay State Road		Concord av	Field	50	760	1896	
Beaver		Cowperthwaite	Flagg	40	374	1874	

* Varies in width—lines not parallel.

† Wherever the date 1635 occurs it indicates only that the street or square was recognized as a highway at that date.

LIST OF STREETS AND WAYS — *Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Bedford	Porter	Somerville line	33			30
Beech		Mass. av	Elm	*60	560	1848	
	Bell	Ellston	Northerly	25			255
Bellevue Avenue		Raymond	E. of Avon Hill	30	455	1889	
Bellevue Avenue		Raymond	Westerly	30	182	1895	
Belmont		Mt. Auburn	Belmont line	75	1183	1900	
	Belvidere Place	Green	Franklin	5			177
	Bennet	Murray	University rd.	40			347
	Bent	Commercial av.	Second	50			877
	Bent	Third	Ninth	50			1555
Berkeley		Phillips pl	Craigie	40	984	1864	
	Berkeley Place	Berkeley	Southerly	35			560
Berkshire		Bristol	Cambridge	40	1594	1896 1900	
	Berkshire Place	Berkshire	Portland	15			300
Bigelow		Mass. av	Harvard	40	920	1869	
Binney		Commercial av.	Third	50	1271	1897 1900	
	Binney	Third	Ninth	50			1406
Binney		Ninth	Portland	50	828	1876	
Birch		Concord av	Bay State rd.	50	426	1896	
	Bird	Belmont	Cushing av	40			316
	Bismarck	Newman	b'y'd Gladst'ne	30			440
Blackstone		River	Western av	50	844	1859	
	Blair Place	Bolton	Southerly	35			182
Blake		Mass. av	Orchard	40	408	1883	
Blanche		Mass. av	Auburn	30	600	1902	
	Blanche	Auburn	Southerly	30			34
Boardman		Harvard	Broadway	50	275	1872	
	Boardman Place	Boardman	Easterly	6			100
Bolton		Sherman	Westerly	25	978	1875	
Bolton		Sherman	Easterly	30	457	1905	
Bond		Concord av	Garden	50	476	1882	
Bow		Mass av	Arrow	*40	235	1785	
Bow		Arrow	Mt Auburn	45	720	1785	
	Bowdoin	Hudson	S of Martin	30			243
Bowdoin		Martin	Linnaean	40	562	1883	
Boylston		Mass av	Charles river	60	1778	1895	
	Boyson Place	Valentine	Northerly	10			75
	Bradbury	Mt. Auburn	Sparks	20			567
	Bradford	Main	Esplanade	60			1187
Brattle		Mass. av	Brown	60	3100		
"		Brown	Craigie	60 70	275	1635	
"		Craigie	Riedesel av	70	475	to	
"		Riedesel av	near Appleton	70 60	350	1870	
"		near Appleton	Mt. Auburn	60	3350		
Brattle Square		Brattle	Mt. Auburn			1635	
	Brewer	Mt. Auburn	Southerly	20			374
Brewster		Sparks	Appleton	35	742	1887 1890	
Bridge		Harbor line	Lechmere sq.	75	1389	1839	
Bridge		Lechmere sq.	Somerville line	50	1750	1870	
	Brimmer Place	Burleigh	Munson	13			240
Bristol		Portland	Webster av	40	504	1882	
Bristol		Webster av	Hampshire	30	234	1874	
Bristol		Hampshire	Market	30	268	1900	
Broadway		Main	Cambridge	66	10150	1829	
	Broadway Ter'ce	Broadway	Southerly	15			228
	Brookford	Mass. av	Railroad	40			477
Brookline		Mass. av	Granite	40	3930	1824	
Brookline		Granite	Charles river	100	750	1902	
	Brooks	Main	School	20			198
	Brown	Brattle	Foster	20			490
	Bryant	Francis av	Irving	50			787
Buckingham		Craigie	Concord av	40	1213	1866	
	Buckingham Pl.	Buckingham	Easterly	30			235
Buena Vista Park		Upland rd	Northerly	40	350	1896	
Buena Vista Park		Richdale av	Southerly	30	180	1898	
Burleigh		Main	Broadway	40	810	1872	

* Varies in width—lines not parallel.

LIST OF STREETS AND WAYS — *Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date	
	Burns Court	Foster	Southerly	16			160
	Butler Court	Plympton	Easterly	10			70
Cambridge		Bridge	Mass. av.	66	12000	1809	
	Cambridge Ter.	Buena Vista pk.	Richdale av.	40			531
	Camden Place	Mt. Auburn	Northerly	16			140
	Camelia Avenue	Cambridge	Line	40			500
Cameron		Mass. av.	Seven Pines av	60	568	1896	
	Camp	Fair Oaks	Seven Pines av	40			390
Carlisle		Tremont	Prospect	40	263	1891	
	Carleton	Main	Deacon	40			167
Carleton		Deacon	Amherst	50	487	1902	
Carver		Museum	Sacramento	40	496	1898	
Cedar		Mass. av.	Rindge av.	40	1554	1870	
	Central Place	Western av.	Northerly	20			100
Central Square		Mass. av.	Prospect st.				
Centre		Hancock	Dana	50	655	1848	
Channing		Brattle	Mt. Auburn	50	712	1871	
	Channing Place.	Brattle	Northerly	40 30			294 170
	Chapman Place.	Gerry	Prewer	20			135
	Charles	Commercial av.	First	50			597
Charles		First	Sixth	50	1963	1857 1900	
	Charles	Sixth	Ninth	50			581
Chatham		Hancock	Dana	40	744	1859	
Chauncy		Mass. av.	Concord av.	45	1206	1863 1871	
Cherry		Main	Harvard	30	1095	1840 1892	
	Cherry Court	Cherry	Easterly	12			177
Chester		Mass. av.	Somerville line	40	294	1870	
Chestnut		Pleasant	Sidney	40	1900	1874 1875	
	Chestnut	Sidney	Waverly	40			374
	Chestnut Park	Charles	Northerly	35			100
Chilton		Concord av.	Field	50	375	1896	
	Chilton	Huron av.	Concord av.	40			1338
Church		Mass. av.	Brattle	30	677	1834	
	Church Place	Cambridge	Southerly	6			66
	Claflin	Vassar	Esplanade	60			960
	Clarendon Ave.	Mass. av.	Somerville line	30			730
Clark		Main.	School	40	198	1870	
Clark		School	Hampshire	30	1274	1840 1901	
	Clark	Hampshire	Webster av.	30	117	1877	
	Clark St. Place	Clark	Easterly	8			50
	Clary	Prospect	Westerly	40			200
Clay		Rindge av.	Harvey	40	1361	1874	
	Clement Circle	Sparks	Easterly	30			222
Cleveland		Ellery	Dana	30	300	1886	
Clifton		Rindge av.	Harvey	40	1363	1889 1902	
Clinton		Mass. av.	Harvard	30	860	1863	
Cogswell Avenue		Mass. av.	Fitchburg R.R.	40	930	1873	
	Cogswell Place	Mead	Cogswell av.	20			514
	Columbia Ter.	Columbia	Westerly	10			210
Columbia		Mass. av.	Somerville line	45	4090	1813 1874	
	Columbus Ave.	Mass. av.	Kimball	40			747
	Common	Harvard	Broadway	15			352
Commercial Ave.		First	Binney	60	646	1900	
	Commercial Av.	Binney	Canal	60			1430
Commercial Ave.		Canal	Bridge	60 63	369	1894 1902	
Concord Avenue.		Waterhouse	Wellington	*50	10800	1829	
	Conlons Court	Third	Easterly	20			210
Coolidge Avenue.		Mt. Auburn	Southerly	*60	2220	1886	
Coolidge Avenue.		Watertown line.	Northerly	*33	1340	1850	
	Coolidge Place	Mass. av.	Northerly	20			170
Copley		Walden	Fayerweather.	40	595	1896	
	Corliss Place	Antrim	Westerly	10			80

* Varies in width—lines not parallel.

LIST OF STREETS AND WAYS — *Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Cottage		Pearl	River	40	981	1873 1882	
	Cottage Court	Cottage	Southerly	10			130
Cottage Pk. Ave.		Mass av	Fitchburg R.R.	40	324	1902	
	Cottage Row	Green	Northerly	6			110
Cowperthwaite		Banks	DeWolf	40	619	1874	
	Crabbie	Richardson	Norfolk	20			110
Craigie		Concord av	Brattle	50	1272	1852	
Creighton		Mass. av	Southerly	40	665	1891	
Crescent		Oxford	Sacramento	30	660	1894	
Crescent Avenue.		Walden	Raymond	40	975	1885	
	Cresto Terrace	Gore	Northerly	10			65
	Crossland	Clark	Bristol	20			202
	Cumnock Place.	Mt. Auburn	Northerly	10			90
Cushing		Belmont	Huron av	40	1860	1880	
	Cushing Avenue	Cushing	Ericsson	40			810
	Cushing Court	Cushing	Westerly	30			570
	Cutler Avenue	Huron av	Southerly	40			142
	Cypress	Walden	Easterly	30			150
	Dailey Alley	Cambridge	Gore	10			192
Dale		Concord av	Field	50	400	1896	
Dana		Mass. av	Cambridge	40	2015	1635 1864	
Dana Square		Lawrence	Lake			1856	
	Danforth	Vassar	Amherst	60			571
Danforth		Amherst	Esplanade	60	241	1904	
Davenport		Mass. av	Elm	35	615	1877 1894	
Davis		Harvard	Hampshire	30	490	1849	
Day		Mass. av	Somerville	40	348	1886	
	Daye Court	Blackstone	Easterly	10			100
	Deacon	Main	Carleton	30			230
Decatur		Brookline	Pearl	40	477	1874	
	Decatur Court	Decatur	Southerly	10			124
Dewolf		Mt. Auburn	Flagg	40	1375	1858 1886	
	Dewolf Place	Dewolf	Westerly	12			73
	Dickinson	Broadway	Davis	15			765
	Dinsmore Court.	Willard	Westerly	22			181
	Divinity Avenue	Kirkland	Northerly	70			1100
	Doane	Foster	Kenway	30			200
Dodge		Western av	Grigg	30	218	1886	
Donnell		Concord av	Garden	30	680	1889	
Douglass		Mass. av	Austin	30	286	1872	
	Douglass Court.	Douglass	Westerly	18			122
Dover		Mass. av	Somerville	40	380	1886	
Dudley		Mass. av	Clifton	40	1706	1897 1902	
	Dudley Court	Dudley	Northerly	14			134
Dunster		Mass. av	Mt. Auburn	40	364	1857	
Dunster		Mt. Auburn	South	30 34	500	1635	
	Dwight	Murray	Westerly	40			200
East		Bridge	B. & M. R. R.	50	450	1829	
	Eaton	Cherry	Pine	30			200
Eighth		Cambridge	Spring	40	624	1876 1896	
Eliot		Eliot sq	Boylston	70	360	1870	
Eliot Square		Mt. Auburn	Murray			1635	
Ellery		Mass. av	Cambridge	40	1907	1857 1869	
Ellsworth Ave		Broadway	Cambridge	40	927	1861	
	Ellsworth Park.	Ellsworth av	Easterly	30			227
Elm		Harvard	Somerville	40	2485	1873	
Elm		In Somerville	‡				
	Elmer	Sands	Northerly	25			426
Elmwood Ave		Brattle	Mt. Auburn	60	715	1635	
	Emery Court	Binney	Southerly	20			100
	Emily	Sidney	Brookline	40			442
	Emmett Place	Sixth	Easterly	10			100

‡ Elm Street in Somerville from White Street to Russell Street forms, with its south-westerly line, the city line between the two cities.

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Emmons Place..	Baldwin.....	Westerly.....	18	.....	.....	180
	Endicott.....	Vassar	Esplanade.....	60	.....	.....	735
	Ericsson.....	Belmont line ...	Cushing av ...	40	.....	.....	47
	Ericsson Court..	Green	Northerly	6	.....	.....	95
Erie.....	.....	Albany	Magazine.....	40	1900	1860 1899	
Essex.....	.....	Mass. av.....	Austin.....	31	280	1850	
Essex.....	.....	Austin..... ...	Harvard.....	40	827	1836	
	Essex Court.....	Essex	Westerly.....	13	.....	.....	80
Eustis	.....	Oxford.....	Somerville ...	40	666	1900	
Everett.....	.....	Mass. av.....	Oxford.....	50	848	1877	
Exeter Park.....	.....	Mass. av.....	Easterly.	35	263	1904	
Fairfield.....	.....	Rindge av.....	Pemberton.....	40	610	1891	
Fairmont.....	.....	Magazine.....	River.....	30	1167	1875 1876	
Fairmont Avenue	.....	Fairmont.....	Somerset.....	30	430	1894	
	Fair Oaks..	Cameron	Camp	40	.....	.....	200
Fairview Avenue	.....	Oxford av.....	Belmont line..	50	207	1905	
	Fairview Ave...	Oxford av.....	Easterly.....	50	.....	.....	70
	Fallon Place.....	Banks.....	Easterly.....	17	.....	.....	154
Farrar.....	.....	Scott	Holden.....	40	575	1891	
Farwell Place....	.....	Brattle	Easterly.	30	370	1844	
Fayerweather....	.....	Brattle	Vassal.....	48 50	310 1935	1863 1893	
Fayerweather....	....	Concord av.....	Walden.....	50	962	1896	
Fayette	... .	Broadway	Cambridge	40	1266	1848	
	Fayette Park....	Fayette	Westerly.....	20	.....	.....	110
Felton.....	....	Broadway	Cambridge	40	412	1871	
Fenno.....	.....	Garden.....	Sherman	40	238	1891	
	Fenno.....	Sherman	Easterly	40	.....	.....	368
Fern.....	.....	Concord av.....	Field.....	50	465	1896	
Field	.....	Fayerweather...	Bay State rd..	40	1234	1896	
Fifth.....	.....	Winter	Charles	50	1712	1829 1873	
	Fifth.....	Charles.....	Potter	50	.....	.....	1280
First	....	Cambridge.....	S of Thorndike	50	600	1871 1874	
First.....	....	S. of Thorndike.	Main....	60	2600	1877 1894	
	Fisk Place.....	Washington	Southerly.....	30	.....	.....	206
Flagg..... .	.....	Putnam.....	DeWolf	40	664	1874	
	Flagg St. Court..	Flagg.....	Southerly.....	10	.....	.. ..	150
Florence.....	.....	Magazine.....	Pleasant.	40	493	1873	
	Florence Place.	Norfolk	Westerly.....	7	.....	.....	70
Follen	.....	Concord av.....	Waterhouse...	30 40	940	1868	
Forest..	....	Mass. av	Somerville	40	916	1872	
	Forest Park.....	Forest.....	Northerly	10	.....	.....	150
	Forrest Place ...	Lambert	Westerly	5	.....	.....	50
Fort Washington.	.....	Waverly.....	Talbot.....	.....	.....	1775	
Foster	.....	Willard..	Lowell	40	1400	1874 1896	
	Foster Place...	Foster.....	Northerly	15	... ...	.....	200
Fourth.....	.....	Bridge.....	Charles.....	50	2159	1829 1883	
	Fourth St. Place.	Fourth.....	Westerly	10	... .	.....	80
Fountain Terrace	.....	Holworthy	Huron av.....	70 to160	150	*	
	Fowler	Vassar.....	Esplanade.....	60	.....	.....	677
	Frances Place...	Montgomery	Westerly	16	.....	.....	100
	Francis Avenue.	Kirkland.....	Bryant.	45	.....	.....	867
Frank	....	Mass. av.....	Somerville	40	480	1885	
Franklin..... ...	.....	Sidney....	Putnam av....	40	3890	1836 1873	
	Franklin.....	Sidney	Landsdowne ..	40	. .. ...	.....	433
	Franklin Place..	Franklin	Northerly.....	10	.....	.....	92
Fresh Pond Ave.	....	Lexington av....	Vassal lane....	50	410	1887	
Fresh Pond Ave.	.....	Concord av.....	Vassal lane ...	100	830		
Fresh Pond Lane	.....	Huron av.....	Fresh Pond pk	40	520	1891	
	Frisbie Place ...	Kirkland.....	Northerly.....	40	.....	.....	440
	Front	Windsor.....	Mass av.....	40	.....	.....	180

* Built by City about 1899—no record of acceptance.

LIST OF STREETS AND WAYS—*Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Front St. Court.	Mass. av.....	Southerly.....	10	.....	.....	150
Frost.....	.....	Roseland.....	Harris.....	40	755	1872 1882	
	Frost Terrace...	Mass. av.....	Easterly.....	20	.....	.....	130
Garden.....	.....	Mass av.....	Waterhouse...	70	1278	1635	
"	.....	Waterhouse.....	Chauncy.....	60	700	1635	
"	.....	Chauncy	Linnaean.....	50 60	1311	1635	
"	.....	Linnaean...	Huron av.....	50	972	1865	
"	.....	Huron av.....	Walden.....	40	1000	1874	
"	.....	Walden.....	Field	40	1266	1896	
	Garden Terrace.	Garden.....	Westerly	30	.....	.....	250
Gardner.....	.....	Tremont	Prospect.....	30	280	1871	
Garfield.....	.....	Mass. av.....	Oxford.....	50	848	1882	
	George	Montgomery	Clay.....	20	.....	.....	240
	Gerry.....	Mt. Auburn	Charles R. rd..	20	.....	.....	375
	Gibson	Mt. Auburn	Foster.....	40	.....	.....	484
	Gilmore	Western av.....	Montagne.....	40	.....	.....	748
	Gladstone	Mass. av.....	Bismarck.....	30	.....	.....	287
Glenwood Ave...	.....	Pearl.....	Magazine.....	40	476	1895	
	Gordon Place...	Florence	Southerly.....	25	.....	.....	206
Gore	.....	Bridge.....	Somerville line	50	2524	1810	
	Gore St. Place...	Gore	Northerly	10	... .	.....	100
	Gorham	Wendell.....	Northerly	40	.....	.....	174
Gorham	.....	Wendell.....	Hammond	30	311	1901	
	Gorham	Hammond	Museum.....	40	.....	.....	155
Granite.....	.....	Brookline	Magazine.....	40	981	1899 1900	
Grant	....	Banks.....	DeWolf	40	590	1874	
Gray.....	.....	Martin	Linnaean.....	40	475	1882	
	Gray Place.....	Harvard	Northerly	15	.....	.....	55
Green	.....	Landsdowne	Putnam av....	40	4582	1830 1895	
	Green	Putnam av.....	Westerly.....	40	.. ....	.....	212
	Greenhalge.....	Vassar.....	Esplanade.....	60	.....	.....	556
	Greenleaf.....	Ash	Hilliard	30	.....	.....	516
Greenough Ave..	.....	Highland av.....	Ellsworth av..	40	306	1881	
	Grenville Ave...	Huron av.....	Vassal lane....	40	.....	.....	516
Grigg.....	.....	Howard	Putnam av....	40	731	1877 1885	
	Grotto Place....	Moore	Westerly	15	.....	.....	50
	Grove Avenue..	Allston	Putnam av....	30	.....	.....	300
	Groveland Road	Rindge av.....	F. R R.....	40	.....	.....	770
Gurney.....	.....	Huron av.....	Fayerweathe .	40	585	1905	
	Hadley.....	Mass. av	Northeasterly .	30	.....	.....	330
Hamilton	.....	Magazine.....	Pearl.....	40	451	1866	
Hamilton	.....	Pearl	Brookline.....	40	492	1875	
	Hamilton.....	Brookline	Sidney.	40	.....	.....	400
Hamlin.....	.....	Plymouth.....	York	40	217	1900	
Hammond.....	.....	Oxford.....	Carver.....	40	1135	1893	
Hampshire	.....	Broadway.....	Somerville line	66	4410	1842	
	Hampshire Ct...	Hampshire	Cambridge	12	.....	.....	190
	Hampshire Pl...	Hampshire	Northerly	18	....	.....	122
Hancock	.....	Mass. av.....	Broadway	40	1191	1841 1859	
"	.....	Mass. av.....	Franklin.....	26	470	1874	
"	.....	Franklin	Kinnaird.....	30	164	1905	
	Hancock Park ..	Hancock.....	Easterly.	24	.....	.....	125
	Hancock Place..	Hancock.....	Easterly	20	.....	.....	94
Harding.....	.....	Cambridge	Somerville	40	550	1874	
Hardwick	.....	Portland	Berkshire	40	300	1900	
	Harold Place....	Cherry	Westerly.....	12	.....	.....	85
	Harrington Pl...	Washington	Northerly	12	.....	.....	50
Harris.....	.....	Frost.....	Oxford	40	374	1879	
Harris.....	.....	Oxford	Somerville line	40	335	1900	
	Harris Place....	Harris.....	Eustis	30	.....	.....	426
Harrison	.....	Main.....	Washington...	30	378	1873	
	Harrison Ave...	Columbus av....	Whittemore av	40	... ..	.....	451
Harvard.....	.....	Main	Mass. av.....	50	8400	1808 1825	
	Harvard Place..	Harvard	Northerly	20	.....	.....	180
Harvard Square..	.....	Boylston	Peabody.....	.....	.....	1635	

LIST OF STREETS AND WAYS — *Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Harvey		Cedar	F. R. R.	30	760 950	1894 1895	
Harvey		Cedar	Mass. av.	40	125	1904	
Haskell		Mass. av.	Rindge av.	40	503	1893	
Hastings		B. & A. R. R.	Moore	30	1143	1873	
	Hastings Ave.	Phillips pl.	Berkeley	25			527
Hastings Square		Henry	Chestnut	40	300	1882	
Hawthorn		Brattle	Mt. Auburn	40	622	1880	
	Hawthorne Ave.	Fresh P'd pkwy.	Huron av.	45			1036
Hayes		Putnam av.	Howard	30	698	1895	
Hayward		Main	Amherst	40	505	1902	
Hazel		Field	Garden	40	258	1896	
	Healey	Parker	Buckingham	40			430
	Henderson Ct.	Day	Southeasterly	15			251
Henry		Pearl	Sidney	40	903	1882	
Henry		Sidney	Waverly	40	420	1884	
	Herbert	Richdale av.	Cambridge ter.	30			197
Hews		Western av.	Grigg	40	282	1895	
High		Holworthy	Park av.	40	506	1896	
Highland		Reservoir	Appleton	40	643	1870	
Highland		Appleton	Sparks	40	704	1887	
Highland Ave.		Broadway	Cambridge	40	1042	1872	
	Highland Park	Highland av.	Easterly	30			150
Hilliard		Brattle	Mt. Auburn	30	553	1851	
	Hilliard Place	Hilliard	Westerly	15			138
Hillside Avenue		Washington av.	Avon Hill	40	350	1882	
	Hillside Place	Avon Hill	Easterly	20			150
Holden		Kirkland	Farrar	40	273	1891	
Holden		Farrar	Scott	40	410	1901	
Hollis		Mass. av.	Rindge av.	30	738	1890	
	Holly	Clark	Brooks	15			192
Holly Avenue		Madison	Huron av.	30	376	1876	
Holmes		Park av.	Holworthy	40	378	1896	
Holmes Place		Mass. av.	Kirkland	30	465	*	
Holworthy		Mt. Auburn	Fountain ter.	50	1315	1880	
	Holworthy Pl.	Holworthy	Park av.	20			488
Holyoke		Mass. av.	South	31	748	1798	
Holyoke		South	Mill	22	144	1898	
	Holyoke Place	Mt. Auburn	Holyoke	30			372
Homer Avenue		Mt. Auburn	Northerly	40	650	1889	
	Houghton	Prospect	Somerville	40			45
	Hovey Avenue	Cambridge	Northerly	40			579
Howard		Western av.	Kinnaird	40	814	1874	
Howard		River	Western av.	40	478	1880	
Howland		Hammond	Wendell	40	272	1894	
Hubbard Avenue		Walden	Raymond	40	760	1883 1892	
	Hubbard Park	Brattle	Foster				
Hudson		Mass. av.	Hudson pl.	28	430	1876	
	Hudson Place	Hudson	Northerly	14			94
Humboldt		Linnaean	Lancaster	30	360	1887	
Hunting		Cambridge	Somerville	40	540	1874	
Hurlbut		Martin	Linnaean	40	437	1882	
Huron Avenue		Raymond	Upland rd	40	405	1894	
" "		Upland rd	Concord av.	50	1176	1894	
" "		Concord av	Fresh P'd lane	70	3851	1892	
" "		Fresh P'd lane	E. line F. R. R.	70	982	1891	
" "		E. line F. R. R.	Cushing st.	70	1430	1894	
" "		Cushing st.	Westerly	70	546	1880	
" "		Westerly	Concord av.	40	5000	1880	
	Hutchinson	Appleton	Walden	40			420
	Hutchinson	Vassar	Esplanade	70			470
Inman		Hampshire	Broadway	40	1325	1855	
"		Broadway	Harvard	37	390	1890	
"		Harvard	Austin	37	625	1857	
"		Austin	Mass. av.	35	350	1830	
Inman Place		Inman	West pl.	35	184	1900	
	Inman Place	West pl	Broadway ter.	15			174
Inman Square		Cambridge	Hampshire			1876	
Irving		Broadway	Kirkland	40	1374	1871	
Irving		Kirkland	Bryant	50	775	1889	

* No formal acceptance.

LIST OF STREETS AND WAYS — *Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Irving Terrace..	Irving	Summer	30			410
Ivy		Fayerweather ..	Garden	40	252	1896	
Jackson		Rindge av	Harvey	40	1367	1902	
James		Battle	Mason	40	212	1871	
	Jarvis	Mass. av	Oxford	50			849
Jay		River	Kinnaird	40	1016	1874 1881	
	Jay St. Place	Jay	Easterly	10			80
Jefferson		Warren	Harding	34	620	1874	
	Jordan Place	Broadway	Southerly	20 30			110 380
Kelley Square		Bridge	Gore			1900	
Kendall Square		Main	Broadway			1856	
	Kennedy Ave.	Brattle	Northerly	30			302
	Kenway	Doane	Gibson	30			215
Kenwood		Putnam av	Northerly	30	310	1901	
	Kenwood	Somerset	Northerly	30			100
	Kimball	Columbus av	Whittemore	40			416
	King	Walden	Easterly	30			110
	King Place	Amory	Westerly	30			150
	Kingsley Park	Fresh Pond	F. R. R.				
Kinnaird		Pleasant	Bay	40	1614	1872 1874	
Kinnaird		Bay	Putnam av	35	503	1874	
Kirkland		Mass. av	Somerville	66	3160	1635	
	Kirkland Place	Kirkland	Northerly	30			500
Kirkland Road		Kirkland	Southerly	30	230	1898	
Lafayette Square		Columbia	Mass. av			1881	
Lake		Pearl	Magazine	40	440	1874	
Lake View Ave.		Brattle	Fresh Pond av.	50	2940	1874	
Lambert		Gore	Cambridge	30	370	1874	
	Lamont Avenue.	Magnolia av	Southerly	30			150
	Lamson Place	Essex	Easterly	20			144
Lancaster		Mass. av	Washingt'n av.	30 40	446 520	1883 1887	
Langdon		Mass. av	Chauncy	40 60 30	225 275 225	1898 1898 1898	
Langdon Square		Langdon				1898	
Landsdowne		Mass. av.	Green	50	257	1895	
	Landsdowne	Green	Pacific	50			983
Larch Road		Brattle	Fresh Pond av.	40	2196	1883	
Laurel		Pleasant	River	30	304	1904	
	Lawn Court	Oxford av	E. of May	40			585
	Lawn	Cushing	May	30			490
Lawrence		Pearl	Magazine	40	447	1873	
Lechmere Sq.		Bridge	Cambridge			1635	
Lee		Mass. av	Broadway	45	1215	1809	
	Leighton Court	East	Westerly	30			200
Leonard Ave.		Cambridge	Line	40	685	1895	
Lexington Ave.		Brattle	Fresh Pond av.	45	2637	1874	
	Lilac Court	Portland	Northerly	16			120
Lincoln		Willow	Elm	40	757	1873 1900	
	Lincoln Place	Lincoln	Northerly	20			150
Linden		Mass. av	Mt. Auburn	25	371	1803	
Line		Kirkland	Cambridge	33	1835	1902	*
	Linehan Court	Third	Westerly	10			107
Linnaean		Mass. av	Garden	50	2183	1724	
	Linwood Place	Broadway	Northerly	20			80
	Livermore Pl.	Union	Westerly	18			114
Locke		Meacham rd.	beyond Frank.	30	693	1892	
Locust		Holworthy	Cushing	40	295	1880	
	Locust Court	Locust	Northerly	20			190
	Longfellow Pk.	Brattle	Mt. Auburn				
Lopez		Brookline	Pearl	40	475	1874	
	Loughrey Ave.	Pioneer	Pelham	12			200
Lowell		Brattle	Mt. Auburn	40	887	1884	
	Lowell Park	Brattle	Mt. Auburn				
	Lowland Ave.	Spring	Charles	20			400
	Lyman	Murray	University rd.	40			395

* Partly in Somerville.

LIST OF STREETS AND WAYS — *Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date	
Madison		Concord av	Garden	30	693	1904	
	Madison Ave	Columbus av	Whittemore av	40			613
Magazine		Central sq	Granite	50	3670	1845 1895	
	Magazine Court.	Magazine	Kenwood	20			260
Magee		Putnam av	Grigg	40	778	1877 1897	
Magnolia Ave		Baldwin.	Line.	40	668	1896	
Magoun		Mass. av	Whittemore av	40	675	1901	
Main		W. Boston b'dge	Broadway	105 116	720 600	1635 1635	
Main		Broadway	Mass. av	70	4430	1635	
Maple Avenue		Broadway.	Cambridge	40	1152	1862	
Marcella		Portland	Berkshire	40	300	1901	
	Marie Ave	Maple av	Highland av	35			299
Marion		Cambridge	Jefferson	30	350	1887	
Market		Broadway	Elm	42	1450	1852	
Marney		Portland	Berkshire	40	360	1898	
Martin		Mass. av	Bowdoin	40	314	1882	
Martin		Bowdoin	Avon	35	514	1894	
	Marvin Place	Columbia	Easterly	12			80
Mason		Brattle	Garden	50	606	1635	
Mass. Avenue		Harvard bridge.	Columbia	90	3314	1889	
" "		Columbia	Pleasant	103	1725	1635	
" "		Pleasant	Putnam av	103 63	2590	1635	
" "		Putnam av	Harvard	63	960	1635	
" "		Harvard	Harvard sq	70	1100	1635	
" "		Harvard sq	Everett	66 160	2390	1635	
" "		Everett	Alewife Brook	98 100	9650	1635	
	May	Lawn ct	N. of Vineyard	40			455
	Maynard Place	Mt. Auburn	Northerly	20			283
	McDonnell Court	Reed	Westerly	15			100
	McLean Place	Cedar	Dudley	30			352
Meacham Road		Mass. av	Locke	40	413	1880	
Mead		Walden	Cogswell av	40	340	1873	
Mechanic Square.		Hampshire	Broadway			1900	
Mellen		Mass. av	Oxford	50	845	1873	
Mercer Circle		Brattle	Sparks.	40	445	1885	
Middlesex		Rindge av	Wilson av	40	308	1895	
	Middlesex	Wilson av	Fitchburg R.R.	40			795
	Mifflin Place	Mt. Auburn	Northerly	25			196
Mill		De Wolf	Holyoke	35	686	1874	
	Miller Avenue	Orchard	Elm	20			338
Milton		Mass. av	Somerville	30	287	1893	
	Montague	Western av	River	40			673
Montgomery		Rindge av	Harvey	40	1360	1896	
Moore		Main	Broadway	30	1080	1840 1875	
Mt. Auburn		Putnam sq	Brattle sq	50	2426	1635	
" "		Brattle sq	Bath	70	1221	1635	
" "		Bath	Elmwood av	66	3365	1635	
" "		Elmwood av	Belmont	63 to 125	3380	1635	
	Mt. Auburn Pl	Mt. Auburn	Southerly	12			110
Mt. Pleasant		Upland rd	Walden	40	584	1877	
Mt. Vernon		Mass. av	Upland rd	50	802	1884	
	Mullens Court	Winter	Southerly	20			100
Munroe		First	Third	50	1094	1902	
Munroe		Third	Sixth	50	896	1890	
	Munson	Washington.	Harvard	30			300
	Murdock	Hampshire	Gardner	16			426
	Murray	Eliot sq	Charles R'y'rrd	50			810
Museum		Carver.	Somerville	40	180	1902	
	Museum	Gorham	Carver.	40			632
Myrtle Avenue		Magnolia av	Kirkland	30	515	1893	
	Myrtle Place	Moore	Westerly	10			50
	Neil	Jackson	Clifton	20			240
New		Concord av	Northerly	45	700	1874	
	Newman	Mass. av	Bismarck	30			256

LIST OF STREETS AND WAYS — *Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Newton	Chestnut	Putnam av	40			300
Niagara		Lawrence	Lake	40	200	*	
	Nichols Place	Baldwin	Westerly	13 17			115 72
	Niles Lane	Concord av	Northerly	30			900
Ninth		Cambridge	Vine	50	1004	1876 1896	
	Ninth	Vine	Binney	50			950
Ninth		Binney	Potter	50	327	1882	
Norfolk		Mass. av	Somerville line	40	3710	1809 1874	
	Norfolk Court	Norfolk	Elm	20			215
	Norfolk Place	Norfolk	Westerly	10			60
	Norman	Belmont	Northerly	40			215
Norris		Mass. av	Cedar	40	663	1883	
North		Water	East	50	740	1829	
	Norton Place	Martin	Southerly	12			85
	Norumbega	Belmont	Northerly	40			210
Nutting Place		Mt. Auburn	Southerly	30	260	1896	
Oak		Cambridge	Somerville	30	270	1883	
Oak Circle		Oak	E'st'ly & Nor'ly	30	350	1904	
	Olive Place	Montgomery	Westerly	15			100
Oliver		Huron av	Winslow	30	205	1886	
Orchard		Davenport	Russell	40	1312	1859 1865	
Orrin		Garden	Winslow	30	295	1886	
Osborn		Main	State	40	227	1893	
Osborn		State	Albany	35	465	1895	
Otis		First	Sixth	50	1900	1831 1876	
"		Sixth	Ninth	40	445		
"		Ninth	R. R.	40	200	1876	
Otter		Cowperthwaite	De Wolfe	40	160	1874	
Oxford		Kirkland	Somerville	50	3480	1847 1872	
Oxford Avenue		Fairview av	Belmont line	40	285	1905	
Pacific		B. A. R. R.	Brookline	40	470	1875 1902	
Palermo		Willow	Windsor	40	312	1898	
	Palmer	Brattle	Church	25			337
Park		Magazine	Pleasant	40	513	1876	
Park Avenue		Huron av	Holworthy	50	956	1896	
Parker		Concord av	Buckingham	40	723	1891	
	Parnell	Cambridge	Otis	25			200
Peabody		Harvard sq	Kirkland	66	410	1886	
Pearl		Mass. av	Granite	40	3840	1822 1871	
	Pearl St. Place	Pearl	Easterly	20			70
	Pearl Terrace	Pearl	Easterly	30			360
	Pelham	Broadway	Main	30			352
	Pelham	Main	Amherst	50			790
Pemberton		Rindge av	Fairfield	40	960	1891	
	Pemberton Ter	Pemberton	Easterly	15			100
	Pemberton Ct	Pemberton	Southerly	20			110
	Percy Place	Essex	Easterly	20			145
Perry		Pearl	Magazine	40	448	1873	
Peters		Allston	Putnam av	40	360	1896	
	Phillips Place	Mason	Garden	35 30			666
Pilgrim		Brookline	Sidney	40	500	1893	
	Pilgrim	Sidney	Landsdowne	40			288
Pine		School	Harvard	30	1008	1840 1845	
Pioneer		Main	Broadway	30	250	1903	
	Pioneer Avenue	Broadway	Pelham	12 20			434 66
Pleasant		Mass. av	Florence	40	3340	1845 1873	
Pleasant		Florence	Charles R'y'rd	40	400	1900	
	Pleasant Place	Pleasant	Easterly	30			355

* No formal acceptance.

LIST OF STREETS AND WAYS — *Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Plymouth		Portland	Hampshire	40	1068	1883 1894	
Plympton		Mass. av	Bow	30	365	1803	
Plympton		Bow	Riverview av.	40	616	1890	
	Plympton Place.	Plympton	Westerly	10			120
	Pond Place	Putnam av	Easterly	10			60
Porter		Warren	Harding	34	641	1874	
	Porter Circle	Porter rd	Northerly	25			100
	Porter Park	Porter rd	Southerly	20			120
Porter Road		Mass. av	Westerly	40	847	1900	
Porter Square		Mass. av	Somerville av.			1896	
Portland		Albany	Cambridge	50	3833	1872 1875	
Portsmouth		Webster av	Hampshire	40	327	1892	
	Potter	Third	Sixth	50			866
Potter		Sixth	Ninth	50	396	1882	
	Potter Park	Linnaean	Southerly	25			160
Prentiss		Mass. av	Frost	30	414	1898	
Prescott		Harvard	Cambridge	40	1060	1858 1886	
Prince		Magazine	Pleasant	30	530	1870	
	Princeton Ave.	Ames	Esplanade	100			5750
Prison Point		Bridge	Charlestown	50	1339	1839	
Prospect		Mass. av	Somerville	50	3330	1804 1873	
Putnam Avenue.		Mass. av	Western av.	40	2025	1840	
" "		Western av	Pleasant	50	1530	1873	
" "		Pleasant	B. & A. R. R.	40	2373	1876	
	Putnam Court	Putnam av	Southerly	30			110
Putnam Square		Mt. Auburn	Mass. av			1893	
Quincy		Quincy sq	Kirkland	40	1406	1853	
Quincy Square		Quincy	Mass. av			1876	
	Radcliffe	Mass. av	Claflin	50			1110
	Railroad	Sherman	Yerxa rd	40			768
				30			605
Raymond		Linnaean	Crescent av	40	2544	1856 1896	
	Reardon	Waverly	B. & A. R. R.	30			265
Reed		Rindge av	Harvey	40	1358	1874	
	Reed St. Court	Reed	Montgomery	7			240
Regent		Mass av	Fitchburg R.R.	40	500	1877	
Remington		Mass av	Harvard	40	361	1861	
Reservoir		Fayerweather	Vassal lane	50	1666	1863	
	Revere	Mt. Auburn	Gerry	15			254
Rice		Mass. av	Rindge av	40	983	1864	
	Richardson	Norfolk	Elm	20			220
Richdale Avenue		Upland rd	Walden	45	1188	1893	
Riedesel Avenue		Brattle	Brewster	35	350	1890	
Rindge Avenue		Mass. av	Cedar	50	1650	1870	
Rindge Avenue		Cedar	L. & A R R.	40	3450	1870	
	Rindge Terrace.	Rindge av	Northerly	20			110
	Rindgefield	Rindge av	Northerly	32			200
River		Central sq	Charles River.	50	3490	1858	
	Riverside Place.	Western av	Northerly	20			120
Riverview Ave		DeWolf	Westerly	35	625	1874	
Rockingham		Henry	Granite	40	380	1885	
	Rockingham Pl.	Rockingham	Easterly	18			120
Rockwell		Pleasant	River	30	383	1895	
	Rogers	First	Ninth	50			2468
	Rogers Court	Portland	Burleigh	35			255
	Rollins Court	Watson	Southerly	10			130
Roseland		Mass. av	Somerville	40	576	1862	
Royal Avenue		Huron av	Concord av	40	540	1902	
Russell		Mass. av	Somerville	40	280	1859	
Rutland		Shepard	Langdon	40	336	1903	
Sacramento		Mass. av	Somerville	40	1725	1854	
	Sacramento Pl.	Sacramento	Northerly	24			245
	Saginaw Avenue	Elm	Davenport	25			275
	Saint Paul	Prospect	Westerly	30			285
				35			200
Salem		Auburn	Watson	27	260	1877	
Sands		Putnam av	Banks	40	323	1875	

LIST OF STREETS AND WAYS — *Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
Sargent		Rindge av	Railroad	30	841	1900	
Saville		Appleton	Walden	40	357	1893	
School		Portland	Windsor	40	885	1872, 1889	
School		Windsor	Austin	30	640	1845	
	School St. Place.	School	Northerly	12			60
Scott		Irving	Somerville line	50	929	1889	
Seckle		Webster av	Windsor	30	275	1887	
Second		Gore	Athenæum	50	2755	1829, 1902	
	Second St. Court.	Second	Easterly	20			100
	Seven Pines Ave	Cameron	Yorktown	40			315
Seventh		Gore	Cambridge	30	265	1897	
Seventh		Cambridge	Spring	40	703	1876, 1895	
Shepard		Mass. av	Garden	40	1500	1852	
	Sheridan	Raymond	Wood	40			505
Sheridan Square		Cedar	Rindge av			1897	
Sherman		Huron av	Rindge av	40	3630	1860, 1872	
Short		Bridge	North	40	200	1829	
	Sibley Court	Sparks	Westerly	15			160
Sidney		Mass. av	Henry	40	3592	1873, 1900	
Sixth		Gore	Main	50	3620	1829, 1874	
	Smart	State	Mass. av	30			425
Soden		Western av	Franklin	40	463	1874	
	Soden Place	Soden	Westerly	10			80
Somerset		Putnam av	Kenwood	30	700	1877, 1894	
Somerville Ave		Somerville line	Porter sq	70, 120	440	1872	
South		Holyoke	Boylston	21	446	1635	
Sparks		Mt. Auburn	Huron av	40	2445	1850, 1893	
	Sparks St. Court.	Huron av	Concord av	20			500
Spring		First	Ninth	50	2425	1835, 1900	
	Spring Place	Spring	Northerly	5			260
Springfield		Cambridge	Somerville line	40	226	1876	
	Spruce Avenue	Holworthy	Cushing	30			340
	Squires Court	Gore	Southerly	20			220
	Standish	Huron av	Vassal lane	40			935
State		Mass. av	Osborn	40	930	1813, 1891	
Stearns		Garden	E. of Sherman	40	606	1903	
	Stevens Court	Fourth	Westerly	15			150
	Stiles	Banks	Charles R'v'rrd	40			258
	Stinson Court	Somerset	Southerly	12			175
Story		Brattle	Mt. Auburn	33	470	1865	
Suffolk		Columbia	Norfolk	30	520	1834	
	Sullivan Place	River	Northerly	10			220
Summer		Prospect	Inman	30	500	1876, 1884	
Sumner		Cambridge	Kirkland	40	580	1844	
Surrey		Putnam av	Banks	40	280	1885	
	Sycamore	Walden	Easterly	30			150
Talbot		Waverly	B. & A. R. R.	30	203	1879	
Tannery		Mass. av	Almshouse	30, 40	600	1891	
Temple		Mass. av	Austin	36	284	1865	
	Tenney	Orchard	Elm	20			373
	Third	E. C. Depot	Bridge st	45			120
Third		Bridge st	Cambridge	50	495	1829	
"		Cambridge	Charles	50	1458	1832	
"		Charles	Broad Canal	60	1517	1832	
"		Broad Canal	Main	50	352	1832	
	Third St. Court	Third	Broadway	25			260
Thorndike		First	B. & A. R. R.	50, 40	1900, 860	1829, 1898	

LIST OF STREETS AND WAYS — *Continued.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Torrington Place	Washington	Northerly	15			150
Traill		Mt. Auburn	Elmwood av	40	460	1892	
Traymore		Eustis	Harris	30	255	1900	
Tremont		Broadway	Somerville line	40	2050	1851 1874	
Trowbridge		Mass. av	Kirkland	40	2690	1871 1884	
	Trowbridge Pl.	Trowbridge	Westerly	30			180
	Trowbridge Ter.	Trowbridge	Easterly	15			100
Tudor Park		Fresh Pond av.	Fresh Pond			1880	
	Tudor	Brookline	Sidney	40			456
Tufts		Magazine	Pearl	40	472	1874	
	Tuttle	Donnell	Huron av	30			596
	Tyler Court	Mass. av	Southerly	20			210
Union		Market	Lincoln	30	993	1873 1877	
	Union Place	Union	Westerly	16			110
	Union Terrace	Union	Westerly	16			105
	University Road	Mt. Auburn	Charles R'v'rd	40 35			200 490
Upland Road		Mass. av	Huron av	50	2944	1881 1894	
Upton		Magazine	Pleasant	40	499	1873	
Valentine		Brookline	Pearl	40	484	1877	
	Vandine	Portland	Berkshire	25			300
Van Norden		Middlesex	Yerxa rd	40	338	1903	
Vassal Lane		Huron av.	Lake View av.	40	2200	1888	
	Vassar	Mass. av	Main	50			1540
Vassar		Mass. av	Danforth	50	508	1895	
	Vassar	Danforth	Princeton av.	50			2500
Vernon		Mass. av	Green	40	205	1874	
	Village	State	Mass. av	20			220
Vincent		Upland rd	Walden	40	357	1889	
Vine		First	Sixth	50	1500	1849 1900	
	Vine	Sixth	Ninth	50			530
Vineyard		Cushing	May	40	365	1876	
Wadsworth		Main	Esplanade	40	661	1902	
Walden		Mass. av	F. R. R	40	830	1860	
Walden		F. R. R	Vassal lane	50	3900	1860	
Walker		Garden	Linnaean	40	1680	1875 1894	
	Walker Court	Flagg	Southerly	20			160
	Walker St. Place	Walker	Southerly	30			80
	Walker Terrace.	Walker	Southerly	12			120
Walnut Avenue		Arlington	Upland rd	70	476	1882	
Ware		Harvard	Broadway	40	690	1880	
Warland		Magazine	River	40	752	1867 1903	
Warren		Cambridge	Somerville line	40	485	1874	
	Warren Place	Banks	Westerly	10			120
	Washburn Ave.	Mass. av	Somerville line	30			680
	Washburn Ter.	Washburn av.	Yorktown	20			160
Washington		Main	Windsor	40	1600	1836 1845	
Washington		Windsor	Norfolk	30	1240	1836 1847	
Washington Ave.		Linnaean	Upland rd	50	1190	1882 1888	
	Washington Ct.	Washington	Northerly	15			150
Washington Sq.		Waverly	Talbot			1775	
Water		Bridge	North	50	250	1829	
	Water	North	Mystic River	50			350
Waterhouse		Garden	Mass. av	54	710	1724	
Watson		Brookline	Pearl	40	460	1873	
Waverly		Erie	Henry	40	1160	1879	
Webster Avenue		Hampshire	Somerville line	50	2680	1809 1880	
	Wellesley Ave.	Main	Vassar	50			3230
Wellington		Concord av	Belmont	40	1330	1880	
Wendell		Mass. av	Oxford	50	986	1873	
Wendell		Oxford	Carver	40	765	1894	

LIST OF STREETS AND WAYS — *Concluded.*

Street Names.		From	To	Width.	Accepted.		Unaccepted Length.
Accepted.	Unaccepted.				Length	Date.	
	Westley Avenue	Harvey	Fitchburg R.R.	30			160
West		Inman	Lee	37	585	1900	
	West Place	Broadway	West	15			230
	Westacott Court.	Putnam av	Northerly	14			114
Western Avenue		Mass. av	Charles River.	66	3344	1855	
White		Somerville av	Elm	30	603	1885, 1893	
Whitney Avenue.		Putnam av	Chestnut	30	300	1891	
Whitney Court		Essex	Easterly	10			80
	Whittemore Ave	Magoun	Kimball	40			1030
Whittier		Upland rd	Walden	40	362	1889	
Wilbur		Harvey	Southerly	40	400	1903	
Willard		Brattle	Mt. Auburn	40	786	1874	
	Willard St. Court	Willard	Easterly	20			200
William		Pearl	River	40	832	1857, 1875	
Willow		Webster av	Somerville	40, 30	978, 530	1896, 1874	
	Wilson Avenue.	Middlesex	Easterly	40			165
Winslow		Orrin	Sherman	30	348	1886	
Windsor		Somerville line	School	50	3500	1809	
Windsor		Mass. av	School	40	730	1891	
Winter		Third	Fifth	50	980	1848, 1859	
	Winter St. Place.	Winter	Northerly	20			100
	Winthrop	Holyoke	Eliot sq	20, 30			196, 516
	Winthrop Square	Boylston	Mt. Auburn	40		1635	135
	Wood	Walden	Sheridan	40			375
Woodbridge		Mass. av	Locke	40	375	1892	
Worcester		Columbia	Norfolk	32	480	1873	
Worthington		Lake View	Lexington	50	305	1894	
Wright		Hudson	Martin	30	283	1901	
Wyeth Square		Huron av	Garden			1888	
Wyeth Terrace		Lexington	Larch	40	690	1895	
Wyman		Avon Hill	Raymond	40	165	1900	
	Yerxa Road	Rindge av	F. R. R	40			867
York		Webster av	Berkshire	40	510	1896	
	York	Berkshire	Portland	*16			299
Yorktown		Mass. av	Seven Pines av	40	560	1903	
	Yorktown Court.	Yorktown	Washburn av.	20			122
Total					525582		119898

Total length of accepted streets, 525582 feet, or 99.542 miles.
" " " unaccepted " 120350 " " 22.794 "
" " " " 645932 " " 122.336 " December 1, 1905.

Also the following Park roadways: —

Charles River Road, Main St. to Mt. Auburn St., 40 feet wide,	17650 ft.
" " " " " " Greenhalge " 30 " "	6400 "
Pearl and Magazine St. extensions,	710 "
Fresh Pond Park roadways,	15500 "
Fountain Terrace,	480 "
Fresh Pond Parkway, Mt. Auburn St. to Huron Av. (Metropolitan Parkway),	2700 "
Total,	43440 " or 8.227 miles

* Varying width — lines not parallel.

ANNUAL REPORT OF THE CHIEF ENGINEER OF THE FIRE DEPARTMENT

CHIEF ENGINEER'S OFFICE, CITY HALL,
CAMBRIDGE, MASS., December, 1905.

To the Honorable, the City Council:—

GENTLEMEN: — I have the honor to submit herewith the annual report of the Fire Department, for the fiscal year ending November 30, 1905, being my first annual report, showing the condition and the operation of the department, together with such recommendations as in my judgment I deem necessary and proper to promote the efficiency of the department.

MANUAL FORCE.

The present manual force of the department consists of one hundred and thirty-seven officers and men, comprising fourteen companies, viz: seven steam engine, two chemical engine, one combination and four ladder companies, as follows: —

PERMANENT FORCE.

1 Chief Engineer.	6 Lieutenants.
1 Assistant Chief Engineer.	7 Enginemen.
4 Captains.	7 Assistant Enginemen

40 Privates.

CALL FORCE.

7 Captains.	7 Lieutenants.	57 Privates.

APPARATUS

One new ladder truck and a combination wagon was placed in service last June.

The department has at the present time, seven steam engines and hose wagons to run with same, one spare steam engine, seven fuel wagons, two chemical engines, one combination chemical and hose wagon, and four ladder trucks, one of which is equipped with two thirty-gallon chemical tanks. There are also twenty-nine hand chemicals distributed on the several pieces of apparatus.

The apparatus is now in very good condition, with some exceptions, as considerable repairs have been made in the past year. It may be necessary to send Engine No. 2 to the shop some time in the near future for a new boiler and general repairs.

HOSE.

There are 15,150 feet of two and one-half inch cotton rubber lined hose in good condition. Two hundred and fifty feet of two-inch cotton and linen hose, and 1,150 feet of one-inch rubber hose on chemical engines.

Eighteen hundred feet of two and one-half inch hose was purchased for the new combination wagon, and 1,400 feet of the same size was purchased to take the place of that condemned. Two hundred feet of two-inch cotton and 300 feet of one-inch rubber hose was purchased and an equal amount condemned. Seven feet of three-inch, thirty feet of four and one-half inch and ten feet of five-inch suction hose was bought in place of same condemned.

HORSES.

There are now forty-two horses in service of the department and one or two more are needed to fill places of those liable to be sick or otherwise temporarily unfit for work, to save expense of horse hire from outside parties.

Thirteen horses have been purchased during the past year, four of which were for the new apparatus and nine were disposed of as unfit for fire service. Other horses now in service will have to be replaced by new ones during the coming year.

HOUSES.

The houses of the department are very much in need of repairs and paint, very little having been done in that line during the past year.

The new engine and ladder house was completed according to contract, but alterations will have to be made in the interior to save fuel in heating the rooms.

APPROPRIATIONS, RECEIPTS AND EXPENDITURES.

The appropriation for the fiscal year ending November 30, 1905, was $115,000.00; the receipts were $136.35.

Salaries	$89,000 00
Amount expended	88,498 13
Balance unexpended	$501 87
Appropriation for general expenses	$26,000 00

ITEMS OF EXPENDITURES.

Apparatus, new	$3,233 78	
Apparatus, repairs on	3,931 06	
Buildings, repairs on	526 80	
Amounts carried forward	$7,691 64	$26,000 00

Amounts brought forward	$7,691 64	$26,000 00
Bedding	335 95	
Badges, insignia, etc.	99 42	
Cleaning material	147 68	
Chemical supplies	73 66	
Furniture	316 02	
Fuel for engines and houses	3,653 67	
Gas and electric light	884 97	
Hardware, etc.	368 76	
Harnesses, and repairs on	342 00	
Horse hire	678 50	
Horses purchased	2,416 47	
Horseshoeing	979 75	
Hose, and repairs on	2,425 47	
Hay, grain and straw	4,769 01	
Printing and stationery	127 05	
Oil and matches	129 56	
Laundry for department	220 95	
Miscellaneous	339 35	
		25,999 88
Balance unexpended		$0 12
Appropriation for new house, Ward 10		$12,377 46
Amount expended		12,377 13
Balance unexpended		$0 33

FIRES AND ALARMS.

The whole number of alarms during the year was 357; bell alarms 269; still alarms 88.

The following table will show the values, losses, etc., for the past year: —

	Values.	Losses.	Insurance.	Insurance Paid.
On buildings	$812,725 00	$49,513 00	$541,981 00	$41,999 13
On contents	308,887 00	60,612 82	217,689 00	52,825 82
Totals	$1,121,612 00	$110,125 82	$759,670 00	$94,824 95

MEMBERS DISCHARGED.

Chief Engineer Thomas J. Casey retired December 31, 1904, having served in the department nearly fifty-one years, and his name was placed on the pension roll.

Joseph Lincoln, call member, discharged July 3, 1905, at his own request.

Albert F. Sawyer, call member, discharged September 25, 1905, at his own request.

Call Lieut. George F. Donovan, discharged November 1, 1905, at his own request.

APPOINTMENTS.

William Reilly appointed as permanent man, assigned to duty February 1, 1905.

James P. Welsh appointed as call man, assigned to duty February 15, 1905.

John F. McPherson appointed as call man, assigned to duty March 22, 1905.

Hiram W. Hooker, Edward Grant, Mortimer F. Hartney, Matthew F. Gleason, Charles J. McElroy, David T. Burns and Timothy F. McCarthy, appointed as permanent men, assigned to duty June 15, 1905.

Michael Mullen, Thomas J. Conroy, Horace P. Walker, Thomas J. King, Maurice A. Skold, Timothy J. Murphy, Albert F. Sawyer and William T. Anderson, appointed as call men, assigned to duty June 15, 1905.

Daniel J. Holleran appointed as call man, assigned to duty August 1, 1905.

William L. McCusker appointed as call man, assigned to duty November 1, 1905.

PROMOTIONS

Assistant Chief Nathaniel W. Bunker promoted to Chief Engineer January 1, 1905.

Lieutenant James M. Casey promoted to Assistant Chief Engineer January 1, 1905.

James T. McCabe promoted to Lieutenant January 1, 1905.

Lieutenant Angus H. McDonald promoted to Captain June 15, 1905.

Albert S. Benson promoted to Lieutenant June 15, 1905.

William H. Cairns promoted to Lieutenant June 15, 1905.

Charles A. Cairns appointed to Engineman June 15, 1905.

ACCIDENTS.

Accidents to members of the department have not been of a serious nature. Several men were overcome with smoke at a fire in Goepper Bros. barrel factory, but soon recovered.

RECOMMENDATIONS.

As the population of our City increases, and vacant land is being rapidly covered with buildings, it is necessary to meet liabilities for fires by having every facility possible. In my opinion more alarm boxes are needed in various sections of the City, and would recommend placing

boxes in the following locations: — Garden St., cor. Sherman St.; Appleton St., cor. Huron Ave.; Belmont St., cor. Norman St.; Brattle St., cor. Fresh Pond Lane; Church St., cor. Palmer St.; Putnam Ave., cor. Magee St.; Western Ave., cor. Putnam Ave.; Broadway, cor. Highland Ave.; Broadway, cor. Boardman St.; Green St., cor. Vernon St.; Fifth St., cor. Winter St.; Highland St., cor. Reservoir St.; Lexington Ave., Chemical No. 2; Mass. Ave., cor. Allen St.; and move Box 68 to Upland Road, near Richdale Ave., also move bell striker from schoolhouse on Upton St. to Ladder House No. 2, Portland St.

Relating to Hydrants: — The outlets to our hydrants are three inches in diameter, and our hose couplings are two and one-half inches in diameter, so that in making connection reducing couplings are used, which causes a loss of valuable time. I am informed that all other cities of the State have two and one-half inch outlets. I therefore very forcibly recommend that the outlets to our hydrants be changed to a uniform size with other cities.

Relating to Rubber Tires: — The use of rubber tires has shown that they are a great saving to the wear of apparatus, also that the load is easier drawn by the horses, so I would voice the sentiments of my predecessor in recommending placing rubber tires on all apparatus as fast as possible.

CONCLUSION.

I desire to extend my thanks to His Honor, the Mayor, and the Committee on Fire Department for courtesies shown me, also to the City Electrician for his hearty co-operation; the Superintendent of Water Works for his efforts to advance the interests of this department; the members of the police force for their work at fires, and to all others who have in any way contributed to the success of this department.

I desire to thank Assistant Chief James M. Casey for valuable aid rendered.

I wish to express my high appreciation of the efforts put forth by all officers and men of the department to maintain its good name; of the zeal shown and prompt response to all calls made upon them, thereby making the operations of the department a success.

Respectfully submitted,

NATHANIEL W. BUNKER,
Chief Engineer.

APPENDIX

ROLL OF OFFICERS AND MEMBERS.

ENGINEERS.

Name.	Rank.	Age.	Residence.
Nathaniel W. Bunker.....	Chief Engineer	61	276 Portland street.
James M. Casey.....	Asst. Chief Engineer.....	41	353 Huron avenue.

CHIEF'S DRIVER.

No. of Badge.	Name.	Rank.	Age.	Residence.
1	William J. Atkinson.....	Private.....	29	956 Cambridge street.

ENGINE COMPANY No. 1.

House, 108 Mt. Auburn Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
2	Charles A. Blair.....	Engineman.....	44	22 Springfield street.
3	Hiram W. Hooker.....	Asst. Engineman	66	108 Mt. Auburn street.
4	Bernard J. Coakley.....	Private.....	30	43 Hubbard avenue.
5	Daniel E. Shea.....	"	48	16 Athens street.
6	Thomas F. Drummond...	"	37	192 Green street.
	Call Force			
7	John L. Jones.....	Captain.....	54	409 Green street.
8	Thomas H. Kneeland....	Lieutenant.....	41	108 Mt. Auburn street.
9	William T. Anderson....	Private.....	26	205 Banks street.
10	James W. Irwin.....	"	50	9 Story street.
11	George B. Morse.....	"	38	6 De Wolfe street.
12	William L. McCusker...	"	30	109 Antrim street.
13	J. Joseph Corcoran.....	"	45	31 Ash street.

ENGINE COMPANY No. 2.

House, 384 Massachusetts Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
14	Daniel E. Powers.....	Engineman	46	19 Park street.
15	John H. McDermott.....	Asst. Engineman.....	53	11 Dodge street.
16	John D. Shea.....	Private.....	35	184 Green street.
17	James H. Furfey.....	"	48	59 Prince street.
18	William Reilly.....	"	34	34 Gore street.
	Call Force.			
19	Charles Emerson.....	Captain.....	60	5 Kinnaird street.
20	John J. Balfe	Lieutenant	34	1129 Cambridge street.
21	John Haley.....	Private.....	51	358 Massachusetts avenue.
22	Charles H. Cutting.....	"	53	812 Main street.
23	Thomas J. Conroy.....	"	30	466 Cambridge street.
24	Jas. A. S. Drinkwater....	"	32	721 Main street.
25	William J. Sullivan.....	"	26	193 Norfolk street.

ENGINE COMPANY No. 3.

House, 359 Third Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
26	Thomas F. O'Connell....	Engineman.....	44	28 York street.
27	Frank McGrath.....	Asst. Engineman	41	39 Hunting street.
28	Albert R. Wait.....	Private.....	33	111 Inman street.
29	Patrick J. Hayes.....	"	43	93 Gore street.
30	William F. Newman.....	"	35	11 Hunting street.
	Call Force.			
31	Walter Baker.....	Captain.....	52	40 York street.
32	John F. Brassel.....	Lieutenant.....	51	3 Marney street.
33	Timothy J. Mahoney.....	Private.	58	346 Vine street.
34	Charles E. Leddy	"	45	32 York street.
35	Horace P. Walker.....	"	28	339 Cambridge street.
36	Leo J. Shields.....	"	26	341 Cambridge street.
37	Joseph King.....	"	28	49 Third street.

ENGINE COMPANY No. 4.

House, 2029 Massachusetts Avenue

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
38	John E. Ricker	Engineman	61	2029 Massachusetts avenue
39	Jeremiah O'Connor.....	Asst. Engineman	47	2 Olive place.
40	John Gibson, Jr.....	Private.....	30	8 Tenney street.
41	George E. Muzzey.....	"	64	5 Blake street.
42	John T. Henderson.....	"	36	11 Yerxa road
	Call Force.			
43	Daniel A. McCaughin....	Captain	48	5 Russell street.
44	Redmond M. Burke.....	Lieutenant	36	5 Russell street.
45	George F. Durgin.....	Private.	37	42 Locke street.
46	Joseph T. Vocell	"	40	12 Bolton street.
47	William F. Henderson...	"	40	74 Rice street.
48	George L. Vocell	"	36	25 Railroad street
49	Daniel F. McConologue..	"	33	28 Harvey street.

ENGINE COMPANY No. 5.

House, Inman Square.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
50	Charles E. Connor.....	Engineman	54	1335 Cambridge street.
51	Peter F. McSorley	Asst. Engineman	46	94 Otis street
52	Timothy F. McCarthy....	Private.....	32	8 Clary street.
53	George L. Church.....	"	26	14 Summer street.
54	John J. O'Callahan	"	36	36 Tremont street.
	Call Force.			
55	Francis P. Scanlan	Captain	59	1313 Cambridge street.
56	William T. King.....	Lieutenant.....	49	136 Hampshire street.
57	George W. McIntire.....	Private.....	51	9 Springfield street.
58	James H. McGrath.....	"	49	12 Seckle street.
59	George W. Stevens.....	"	39	1307 Cambridge street.
60	John T Downey	"	26	994 Cambridge street.
61	William C. Johnson.....	"	44	14 Springfield street.

ENGINE COMPANY No. 6.

House, 176 River Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
62	J. Lewis Howe.	Engineman	52	184 River street.
63	Thomas H. McCourt	Asst. Engineman	35	62 Columbia street.
64	Robert J. Buchanan	Private	34	20 Grigg street.
65	Warren A. Dale	"	33	232 Putnam avenue.
66	Herman E. Gutheim	"	28	60 Spring street.
	Call Force.			
67	John H. Brown	Captain	53	206 River street.
68	Charles H. Waite	Lieutenant	59	59 Brookline street.
69	John E. Savage	Private	50	54 Jay street.
70	Thomas F. Mullen	"	32	184 River street.
71	James P. Welch	"	42	70 Columbia street.
72	Charles P. Cox, Jr.	"	33	35 Pleasant street.
73	William J. Doyle	"	32	23 Oak circle.

ENGINE COMPANY No. 7.

House, 350 Main Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
74	Charles A. Cairns	Engineman	39	152 River street.
75	John McCarthy	Asst. Engineman	51	282 Massachusetts avenue.
76	Henry J. O'Brien	Private	29	28 York street.
77	Dennis R. Sullivan	"	34	35 Harvard street.
78	Charles A. Olsen	"	36	17 Pleasant street.
	Call Force.			
79	George A. Garrity	Captain	44	7 Pioneer street.
80	Joseph A. Wood	Lieutenant	43	102 Moore street.
81	James E. Bligh	Private	33	142 Willow street.
82	Edward Clark	"	39	80 Hampshire street.
83	Joseph S. Hayes	"	27	81 Webster avenue.
84	James G. Murphy	"	23	87 Seventh street.
85	James E. Cunha	"	28	12 Union street.

LADDER COMPANY No. 1.

House, Eliot Square.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
86	Cutler L. Vose	Captain	37	377 Huron avenue.
87	Albert S Benson	Lieutenant	62	52 Boylston street.
88	William J. Anderson	Private	33	79 Putnam avenue.
89	Benjamin McArthur	"	31	4 DeWolfe street.
90	David T. Burns	"	27	67 Tremont street.
	Call Force.			
91	Timothy J. Murphy	Private	28	25 Lambert street.
92	Joseph E. Burke	"	43	7 Mill street.
93	John W. Jefferson	"	41	98 Winthrop street.
94	Daniel J. Holleran	"	31	252 Elm street.
95	Thomas J. McGowan	"	40	17 South street.
96	James F. Rooney	"	35	Ladder House No. 1.
97	John T. McPherson	"	32	67 Winthrop street.

LADDER COMPANY No. 2.

House, 276 Portland Street.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
98	John T. McNamee.....	Captain.....	50	96 Winthrop street.
99	James T. McCabe.....	Lieutenant.....	43	125 Green street.
100	James J. Clifford.....	Private.....	33	71 Porter street.
101	Thomas Mimnaugh... ..	"	51	35 Warren street.
102	Charles J. McElroy.....	"	26	74 Otis street.
	Call Force.			
103	Albert Smith.	Private.....	51	233 Broadway.
104	Louis J. Stanger.....	"	58	275 Vine street.
105	Jeremiah F. Hayes.....	"	39	17½ Marney street.
106	Thomas J. Lane.....	"	41	134 Otis street.
107	Michael Mullen.....	"	30	163 Portland street.
108	Thomas J. Park.....	"	29	148 Berkshire street.
109	Edward E. Gaughan.....	"	28	78 Berkshire street.

LADDER COMPANY No. 3.

House, 394 Massachusetts Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
110	William F. Newman.....	Captain.....	59	66 Winter street.
111	William H. Cairns.....	Lieutenant.	41	18 Vernon street.
112	Exurie J. Ouimette.....	Private.....	42	394 Massachusetts avenue.
113	William C. Richardson..	"	37	147 Columbia street.
	Call Force.			
114	Charles A. Sharon.....	Private.....	57	37 Pine street.
115	Lincoln E. Wheeler.....	"	63	16 Columbia street.
116	Frederick Quenandon...	"	32	39 Essex street.
117	Maurice A. Skold..... ..	"	23	261 Washington street.

LADDER COMPANY No. 4.

House, Wyeth Square.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
118	Angus H. McDonald.....	Captain.....	35	440 Huron avenue.
119	Walter E. Chapman.....	Private.....	37	125 Mt. Auburn street.
120	Hiram W. Hooker, 2d....	"	28	1411 Cambridge street.
121	Edward Grant.....	"	27	11 Gerry street.
	Call Force.			
122	Thomas J. King..... ...	Private.....	28	264 Walden street.
123	Francis V. Doyle	"	28	104 Fayerweather street.
124	Garfield F. Eagleston....	"	27	4 Foster street.
125	Edward P. Donahue.....	"	48	3 Willard court.

CHEMICAL COMPANY No. 1.

House, 5 Western Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
126	Lewis C. Clark.....	Lieutenant.....	60	264 Green street.
127	Mortimer F. Hartney....	Private.....	33	3 Jay street.
128	John H. Dardis	"	35	27 Park street.

CHEMICAL COMPANY No. 2.

House, 167 Lexington Avenue.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
129	William H. Barrow	Lieutenant	36	106 Fayerweather street.
130	Timothy Curran	Private.....	36	102 Fayerweather street.
131	William Haley.....	"	58	167 Lexington avenue.
132	Matthew F. Gleason	"	34	22 Yorktown street.

COMBINATION COMPANY No. 1.

House, Wyeth Square.

No. of Badge.	Name.	Rank.	Age.	Residence.
	Permanent Force.			
133	Edward F. Conroy.....	Lieutenant	33	10 Mt. Auburn street.
134	Charles R. Hooker.....	Private.....	61	1411 Cambridge street.
135	Richard J. Doyle	"	29	104 Fayerweather street.

FIRES AND ALARMS.

From December 1, 1904, to December 1, 1905.

DECEMBER.

Thursday, Dec. 1, 5.37 P. M. Box 74.

No. 9 Railroad Street. Owned by Margaret O'Connell. Loss, $38. Insurance, $2,500. Occupied by Odilon Poirier as dwelling. Loss, $40. Insurance, $500. Cause, explosion of lighted lamp.

Saturday, Dec. 3, 8.20 P. M. Box 215.

Ninth Street. Freight yard. Owned by B. & A. R. R. Co. Freight car. Loss, $100. Insurance, $100. Occupied by B. & A. R. R. Co. Hay. Loss, $100. Insurance, $100. Cause, incendiary.

Sunday, Dec. 4, 5.22 P. M. Box 93.

Burning grass in vacant lot.

Monday, Dec. 5, 7.00 A. M. Box 92.

Mt. Auburn Street. Owned by Boston Elevated Railway Co. Occupied as car house. Cause, steam mistaken for fire.

Friday, Dec. 9, 7.14 P. M. Box 82.

No. 64 Highland Street. Owned by William H. Dunbar. Loss, $1,676. Insurance, $14,000. Occupied by William H. Dunbar as dwelling. Loss, $350. Insurance, $2,400. Cause, unknown. Originated in clothes closet in attic chamber.

Saturday, Dec. 10, 6.22 A. M. Box 14.

No. 132 Otis Street. Dwelling owned by Mary Cannon. No loss. Cause, thawing water pipe.

Saturday, Dec. 10, 8.13 A. M. Box 26.

No. 93 Windsor Street. Owned by Jeremiah Green. Dwelling. No loss. Cause, thawing water pipes.

Sunday, Dec. 11, 1.05 P. M. Still.

No. 49 Linnaean Street. Occupied by Josiah Q. Bennett as dwelling. No loss. Cause, soot in chimney afire.

Monday, Dec. 12, 4.08 P. M. Box 62.

No. 23 Hawthorn Street. Occupied by J. H. Pain as dwelling. No loss. Cause, soot in chimney afire.

Thursday, Dec. 15, 6.08 A. M Box 34.

No. 110 Elm Street. Owned by Hazen Confectionery Co. Loss, $1,000. Insurance, $16,000. Occupied by Hazen Confectionery Co. Loss, $9,200. Insurance, $21,000. Cause, overheated stove pipe.

Friday, Dec. 16, 3.00 P. M. Still.

No. 38 Fairfield Street. Occupied by J. G. Tilfer. No loss. Cause, rags near sink.

Saturday, Dec. 17, 10.11 P. M. Box 215.

Ninth Street. Freight yard. Owned by B. & A. R. R. Co. Freight car. Loss, $100. Insurance, $100. Occupied by Hosmer, Robinson Co. Hay. Loss, $100. Insurance, $100. Cause, incendiary.

Sunday, Dec. 18, 10.30 A. M. Still.

No. 29 Reservoir Street. Occupied by Hiram Bingham. No loss. Cause, soot in chimney afire.

Wednesday, Dec. 21, 2.27 P M. Box 26

No. 23 Harrison Street. Owned by Oscar G. Petterson. Loss, $30. Insurance, $9,000. Occupied by Gustaf Anderson. Loss, $22. Insurance, $600. Cause, child with matches.

Thursday, Dec. 22, 8.20 A. M. Still.

No. 22 East Street. Owned by Geo. Nichols. No loss. Occupied by E. T. Grant. No loss. Cause, soot in chimney afire.

Friday, Dec. 23, 9.56 A. M. Box 26.

No. 711 Main Street. Owned by Eugene D. Brooks. No loss. Occupied by Scotton & Towle as plumbers shop. No loss. Cause, lighted candle ignited oakum in rear shop.

Saturday, Dec. 24, 12.16 P. M. Box 112.

No. 59 North Street. Owned by J. D. Jordan. No loss. Cause, sparks. Originated in roof.

Saturday, Dec. 24, 2.48 P. M. Still.

No. 29 Reservoir Street. Owned by S. H. White. Dwelling. No loss. Cause, soot in chimney afire.

Sunday, Dec. 25, 3.19 A. M. Box 26.

No. 82 State Street. Owned by Blacker & Shepard. Loss, $1,632. Insurance, $1,200. Occupied by Blacker & Shepard *et al*, as lumber dry-house. Loss, $2.000. No insurance. Cause, exposure. Originated in shaving bin and extended to dry-house.

Sunday, Dec. 25, 4.05 P. M. Still.

No. 19 Everett Street. Owned by Walter S Swan. Dwelling. No loss. Cause, soot in chimney afire.

Tuesday, Dec. 27, 8.56 A. M. Box 27.

No. 156 Broadway. Owned by Cambridge Paper Box Co. Loss, trifling. Occupied by Globe Towel Supply Co. as laundry. Loss, trifling. Cause, overheated smoke stack. Originated in roof.

Thursday, Dec 29, 1.21 A. M. Box 25.

No 641 Main Street. Owned by Kate White. Loss, $886. Insurance, $1,600. Occupied by Charles W. Gardner as restaurant. Loss, $700. Insurance, $1,600. Cause, unknown. Originated in water closet.

Thursday, Dec. 29, 10.37 A. M. Box 454.

Owned by Harvard College. Hollis Hall. Loss, $913. Insurance, $22,000. Occupied by several parties as dormitory. Loss, $600. No insurance. Cause, supposed stepping on and igniting match.

Friday, Dec. 30, 11.02 A. M. Box 36.

No. 6 Pearl Street. Owned by C. E. Watson. Loss, $121. Insurance, $500. Occupied by James Brown, Jr., as clothes cleaner. Loss, $200. No insurance. Cause, ignition of naptha.

Friday, Dec. 30, 8.05 P. M. Still.

No. 126 Brattle Street. Occupied by Walter J. Badger as dwelling. No loss. Cause, soot in chimney afire.

Saturday, Dec. 31, 11.14 P. M. Box 63.

James Street Owned by Radcliffe College. Loss, $3,600. Insurance, $10,000. Unoccupied. New building being constructed. Cause, spontaneous combustion.

JANUARY.

Sunday, Jan. 1, 4.29 P. M. Box 14.

No 367 Cambridge Street. Owned by Charles Viano. Loss, $365. Insurance, $3,000. Occupied by Jacob S. Goldberg as grocery. Loss, $391. Insurance, $500. Cause, overheated stove.

Monday, Jan. 2, 2.45 P. M. Box 45.

No. 348 Franklin Street. Owned by George B. Caswell. Loss, $250. Insurance, $3,800. Occupied by Commonwealth Laundry. Loss, $100. Insurance, $4,500. Cause, lighted match carelessly dropped in waste paper in cellar.

Tuesday, Jan. 3, 4.43 P. M. Box 68.

No. 1996 Massachusetts Avenue. Owned by Brooks & Conley. Loss, $4,750. Insurance, $15,500. Occupied by S. Douglas Rogers as dwelling. Loss, $500. Insurance, $500. Cause, unknown. Originated on third floor in chamber. Occupied by Harry W. Brown as stationery store. Loss, $35. Insurance, $500. Occupied by Arthur A. Eaton as provision store. Loss, $25. Insurance, $500. Occupied by Samuel Bell as shoe store. Loss, $25. Insurance, $4,000 Occupied by Joseph S Winslow as dwelling. Loss, $300. Insurance, $1,000. Occupied by Chas. F. Hayden as dwelling. Loss, $50. No insurance. Cause, exposure.

Thursday, Jan. 5, 9 07 A. M. Box 19.

Harvard Bridge. Owned by Boston Elevated St. Railway. Trolley wire dropped down.

Thursday, Jan. 5, 6.35 P. M. Box 36.

No. 558 Massachusetts Avenue. Owned by C. E. Watson. No loss. Occupied by Salvation Army as hall. No loss. Cause, Christmas tree taking fire from lighted candles.

Thursday, Jan. 5, 7.42 P. M. Box 83.

No. 5 Trail Street. Owned by Emma F. Munroe. No loss. Cause, steam mistaken for smoke from house in course of construction, drying plaster.

Friday, Jan. 6, 6.33 A. M. Box 131.

No. 759 Cambridge Street. Owned by Catharine Callahan. Loss, trifling. Occupied by several families as dwelling. No loss. Cause, thawing water pipes.

Friday, Jan. 6, 1.49 P. M. Box 9.

No. 173 Cambridge Street Owned by Jacob L. Baily estate. No loss. Occupied by Michael Varallo as dwelling. No loss. Cause, baby carriage placed too near stove.

Saturday, Jan. 7, 8.10 A. M. Still.

No 44. Hunting Street, Somerville. Owned by Carl Weitze. Occupied by John Hill. Cause, child playing with fire.

Saturday, Jan. 7, 10 A. M. Still.

No. 97 Concord Avenue. Owned by Mrs. P. H. Dardis No loss. Occupied by several parties as stable. No loss. Cause, thawing water pipes.

Wednesday, Jan. 11, 1.43 P. M. Box 137.

No. 20 Howard Street. Owned by Martha J Jackson. Loss, $45. Insurance, $1,000. Occupied by Frederick A. McBay as dwelling. No loss. Cause, sparks from chimney on roof.

Wednesday, Jan. 11, 5.10 P.M Box 136.

No. 17 Suffolk Street. Owned by L. M. Hannum. Loss, $12. Insurance, $1,000. Occupied by James Hagley as dwelling. Loss, $15. No insurance. Cause, fire from tobacco pipe igniting couch

Wednesday, Jan. 11, 8 23 P. M. Box 32.

Rear No. 414 Columbia Street. Owned by John P. Squire Estate. Loss, $103. Insurance, $500. Occupied by John P. Squire Estate as paint shop. Loss, $117. Insurance, $300. Cause, spontaneous. Originated in oily rags.

Thursday, Jan. 12, 9 50 P. M. Box 178.

No. 250 Walden Street. Owned by Philip S. Robillard. Loss, $560. Insurance, $1,100. Occupied by Philip S. Robillard as poolroom and grocery store. Loss, $1,003. Insurance, $1,300. Cause, supposed stepping on match.

Saturday, Jan. 14, 7.30 A. M. Still.

No. 299 Cambridge Street. Owned by O. F. Wentworth. No loss. Occupied by John Harastcan as candy store. No.loss. Cause, candy boiling over on stove.

Sunday, Jan. 15, 6.52 P. M. Still.

No. 36 Shepard Street. Owned by David Brown. No loss. Occupied by Rev. A. P. Bond as dwelling. No loss. Cause, match setting fire to draperies.

Tuesday, Jan. 17, 1.29 P. M. Box 145.

No. 80 Harvard Street. Owned by Samuel J. Kelley. Loss, $700. Insurance, $3,000. Occupied by John Hagerty as dwelling. No loss. Cause, child overturned lamp from table onto stove.

Tuesday, Jan. 17, 2.50 P. M. Automatic.

No. 1 Thorndike Street. Owned by Irving & Casson. Cause, accidental automatic alarm.

Wednesday, Jan. 18, 5.30 P.M. Box 37

No. 32 Cottage Street. Owned by Stella F. Morrell. Loss, $15. Insurance, $2,000. Occupied by Mary Richardson as dwelling. Loss, $16. Insurance, $589. Cause, gas light in contact with curtain

Thursday, Jan 19, 7.10 P. M. Still.

No. 87 Amory Street. Owned by John Patton. Loss, $45. Insurance, $2,000. Occupied by Joseph La Porte as dwelling. Loss, $108.35. Insurance, $500. Cause, breaking hanging lamp.

Saturday, Jan. 21, 2.27 P. M. Box 178.

Rear No. 250 Walden Street. Kettle of tar boiling over.

Saturday, Jan. 21, 7.07 P. M. Box 43.

Banks Street. Owned by John T. Culhane. Loss, $20. Insurance, $1,000. Occupied by John T. Culhane as stable. Loss, trifling.

Sunday, Jan. 22, 1.25 P. M. Box 9.

No. 173 Cambridge Street Owned by Jacob L. Baily, Est. Loss, $33. Insurance, $1,000. Occupied by Michael Varallo as variety store. Loss, $85. Insurance, $150. Cause, lamp exploded.

Sunday, Jan. 22, 1.51 A. M. Box 152.

False alarm given by some malicious person.

Sunday, Jan. 22, 11.36 P. M. Box 14.

No. 367 Cambridge Street. Owned by Charles Viano Loss, $143.50. Insurance, $3,000. Unoccupied dwelling. Cause, incendiary.

Tuesday, Jan. 24, 11.50 A. M. Box 137.

No. 34 Howard Street. Owned by Abraham Trusty. No loss. Occupied by Leo Bridget as dwelling. No loss. Cause, thawing water pipe.

Wednesday, Jan. 25, 2.38 A. M. Box 48.

Rear 20 Oak Street. Owned by William H. Stanton. Loss, $300. Insurance, $600 Occupied by Dennis Crimmins as stable. Loss, $450. Insurance, $950. Cause, unknown.

Wednesday, Jan. 25, 3.53 P. M. Box 421.

No. 360 Brookline Street. Owned by Norcross Bros. Loss, $2,000. Insurance, $2,350 Occupied by Norcross Bros. as storehouse. Loss, $3,419. Insurance, $40,700. Cause, extraordinary high tide of river, slacking lime stored in building.

Thursday, Jan. 26, 7.14 A. M. Box 14.

No. 9 Eighth Street. Owned by Bridget Duly. Loss, $517. Insurance, $2,000. Occupied by Bridget Duly as dwelling. Loss, $108. Insurance, $1,000. Cause, thawing water pipes.

Thursday, Jan. 26, 11.51 A M. Box 32.

No 1048 Cambridge Street. Owned by Max Goldenberg. Loss, $251. Insurance, $4,800. Occupied by Isador Frankinstein as dwelling. Loss, $25. Insurance, $1,000. Cause, oil stove taking fire in bath-room.

Saturday, Jan. 28, 2.10 A. M. Box 65.

No. 3 Wendell Street. Owned by Joseph B. Greene. Loss, $4,000. Insurance, $8,281. Occupied by Joseph B. Greene as dwelling. Loss, $1,000. Insurance, $1,000. Cause, fire from tobacco pipe in coat pocket hanging in closet.

Sunday, Jan. 29, 2.47 P. M. Box 32.

No. 952 Cambridge Street. Owned by Atlantic Alcohol Co. Loss, $200. Insurance, $1,000. Occupied by Atlantic Alcohol Co , as offices. No loss. Cause, defective chimney.

FEBRUARY.

Wednesday, Feb. 1, 8.31 A. M. Box 25.

No. 38 Green Street. Owned by J. A. Stubbs estate. Loss, trifling. Occupied by Wm. L. Waite as dwelling. Loss, trifling. Cause, thawing water pipe under sink.

Wednesday, Feb. 1, 10.30 A. M. Still.

No. 15 Portland Street. Owned by Matthew J. Short. Loss, trifling. Occupied by Fred. Smith as grocery store. Loss, trifling. Cause, thawing water pipes.

Thursday, Feb. 2, 4.23 A. M. Box 134.

No. 339 Norfolk Street. Owned by Michael Smith. Loss, $45. Insurance, $2,500. Cause, hot ashes in barrel extended to dwelling.

Thursday, Feb. 2, 5 35 P. M. Box 134.

No. 165 Tremont Street. Owned by Thos. E. Cunningham. No loss. Occupied by Thomas Ford. No loss. Cause, breaking oil lamp.

Thursday, Feb. 2, 5.45 P. M. Still.

No. 24 Highland Street. Owned by Edward Read. No loss. Occupied by Edward Read as dwelling. No loss. Cause, soot afire in chimney.

Friday, Feb 3, 5.31 P. M. Box 52.

No. 991 Massachusetts Avenue. Owned by Tafton Waite. No loss. Occupied by several families as dwelling. No loss. Cause, benzine ignited from gas light.

Saturday, Feb. 4, 12.23 A. M. Box 26.

No. 57 Portland Street. Owned by John McFarlane. Loss, $70. Insurance, $1,000. Occupied by Annie Brennan as dwelling. Loss, $25. Insurance, none. Cause, breaking oil lamp. Mrs. Brennan lost life.

Sunday, Feb. 5, 9.56 P. M. Box 215.

False alarm given by some malicious person.

Sunday, Feb. 12, 8.18 A. M. Box 17.

No. 83 Washington Street. Owned by Esther Holden. Loss, $131. Insurance, $1,500. Occupied by William Holden as dwelling. No loss. Cause, thawing water pipes in cellar

Tuesday, Feb. 14, 11.29 A. M. Box 435.

No. 258 Norfolk Street. Owned by James A. Haley. Loss, $80. Insurance, $2,500. Occupied by James A. Haley as dwelling. Loss, $46. Insurance, $800. Cause, overheated smoke pipe.

Wednesday, Feb. 15, 2.06 P. M. Box 54.

College yard. Owned by Harvard University. Loss, $4,565. Insurance, $78,000. Occupied by several parties as dormitory. Loss, $2,000. No insurance. Cause, painters can of varnish ignited from fire in open fireplace.

Thursday, Feb. 16, 9.07 A M. Box 74.

No. 22 Railroad Street. Owned by Mrs. M. J. Adams. Loss, trifling. Occupied by Thomas Corrow as dwelling. Loss, trifling. Cause, child playing with matches.

Thursday, Feb. 16, 1.44 P. M. Box 43.

No. 43 Flagg Street. Owned by John Sullivan. No loss. Occupied by Mrs. Ellen Sullivan as dwelling. Loss, trifling. Cause, spark from stove setting fire to blanket. Mrs. Sullivan burned about the body.

Thursday, Feb. 16, 4.15 P. M. Still.

No. 572 Cambridge Street. Owned and occupied by Anslem Weber. No loss. Cause, soot in chimney.

Friday, Feb 17, 7.06 A. M. Box 53.

No. 46 Dunster Street. Owned by Signet Club. Loss, $600. Insurance, $5,000. Occupied by Signet Club as club house. Loss, $47. Insurance, $1,500. Cause, hot ashes in barrel in cellar.

Saturday, Feb. 18, 12.55 P. M. Box 9.

No. 203 Cambridge Street Owned by James G. Ferguson. Loss, $151. Insurance, $8,000. Occupied by Lillian A. Young as dwelling. Loss, $645. Insurance, $1,000. Cause, overheated stove igniting table cloth.

Sunday, Feb. 19, 9.50 A. M. Still.

No. 22 Columbia Street. Owned by Charles P Keith. No loss. Occupied by Mary Gordon as dwelling. No loss. Cause, hot ashes in barrel in cellar.

Monday, Feb. 20, 12 50 P. M. Box 9

No. 136 Cambridge Street. Owned by Sarah A. Conlen. No loss. Occupied by Martin & Reno as plumbing shop. No loss. Cause, plumber's stove taking fire. Mrs. Reno burned about body. Joseph King of Engine No. 3 burned on hand.

Monday, Feb 20, 5.28 P. M. Box 25.

No. 891 Main Street. Owned by Phillips Bros. Loss, $205. Insurance, $2,000. Occupied by Louis Ettenbug as furniture store. Loss, $300. Insurance, $800 Cause, lighted match dropping on mattress.

Tuesday, Feb. 21, 7.04 P. M. Box 12.

False alarm given by some malicious person.

Tuesday, Feb. 21, 11.15 P. M. Box 412.

No. 122 to 140 First Street. Owned by W. S. Lockhart & Co. Loss, trifling. Occupied by W. S Lockhart & Co. as manufactory. No loss. Cause, rats and matches on fourth floor in casket.

Wednesday, Feb. 22, 3.21 A. M. Box 371.

Owned by City of Cambridge. Occupied as coal shed. Cause, spontaneous combustion. Fire in Somerville.

Friday, Feb. 24, 12.15 A. M Still.

No. 57 Brewster Street. Owned by Charles A. Whittemore. No loss. Occupied by Alexander Paul as dwelling. No loss. Cause, oily rags taking fire in cellar.

Friday, Feb. 24, 10.14 A. M. Box 32.

No. 255 Elm Street. Owned by Martha D. Frost. Loss, $22.50. Insurance, $2,200. Occupied by Alfred Deveau as dwelling. Loss, trifling. Cause, child set fire to woodbox behind stove.

Friday, Feb. 24, 12.50 P. M. Still.

No. 689 Cambridge Street. Owned by Charles St. George. No loss. Occupied by Charles St. George as dwelling. No loss Cause, gasoline stove taking fire.

Saturday, Feb. 25, 1.54 P. M. Box 46.

No. 317 Harvard Street. Owned by Erasmus D. Leavitt. No loss. Occupied by Erasmus D. Leavitt. No loss. Cause, sparks from chimney igniting paper on roof of greenhouse.

Sunday, Feb. 26, 10.44 A. M. Box 168.

Fire on Russell Street. Somerville.

Monday, Feb. 27, 11.21 A. M. Box 169.

Rindge Avenue. Owned by Rev. John J. Williams. Loss, $2,500. Insurance, $23,000. Occupied by St. John's Catholic Church. Loss, $250. No insurance. Cause, drapery taking fire from candle.

MARCH.

Thursday, March 2, 7.40 P. M. Box 32.

No. 1103 Cambridge Street. Owned by Edward H. Norton. Loss, $100. Insurance, $500. Occupied by Manuel Neves as barber shop. Loss, $15. No insurance. Cause, gas heater in contact with woodwork.

Saturday, March 4, 9.50 P. M. Still.

No. 1906 Massachusetts Avenue. Owned and occupied by Chas. F. Hathaway as bakery. No loss. Cause, smoke from oven mistaken for fire.

Sunday, March 5, 1.50 P. M. Still.

No. 146 Hamilton Street. Owned by Charles Waugh. Loss, $85. Insurance, $2,000. Occupied by Nelson Vandenberg as dwelling. No loss. Cause, bottle of metal polish near hot water boiler exploded.

Monday, March 6, 1.50 A. M. Box 62.

No. 5 Revere Street. Owned by Julia Fitzgerald. No loss. Occupied by Louis P. Edes as dwelling. No loss. Cause, child playing with fire in oil stove. Child burned to death.

Monday, March 6, 10.15 P. M. Still.

Near Main Street. Owned by N. Y. C. & H. R. R. R. car. Loss, $25. Insurance, $1,000. Occupied by Nate Biscuit Co. Loss, $900. No insurance. Cause, supposed incendiary.

Tuesday, March 7, 11.30 P. M. Still.

No. 28 Otis Street. A. B. & E. L. Shaw furniture factory. Cause, accidental automatic alarm.

Wednesday, March 8, 9.05 A. M. Box 16.

Rear No. 414 Main Street. Owned by Joseph J. Wilde. Loss, $390. Insurance, $3,000. Unoccupied stable. Cause, supposed to be by tramps leaving fire from tobacco pipe.

Wednesday, March 8, 5 27 P. M. Box 24.

No. 72 Brookline Street. Owned by Justin E. Grigg. Unoccupied dwelling. Cause, incendiary. Loss, trifling.

Thursday, March 9, 2.38 P M Box 46.

No. 21 Lee Street. Owned and occupied by Eugene D. Burke as dwelling. No loss. Cause, cleaning out chimney in cellar ignited rags.

Friday, March 10, 12.10 A. M. Still.

No. 15 Gore Street. Owned by Otis S. Brown & Co Loss, $35. Insurance, $3,000. Occupied by Otis S. Brown & Co. as office. Cause, oil lamp exploded.

Friday, March 10, 12.49 P. M. Box 114.

Alarm given for fire in Somerville. Armstrong Cooper shop.

Friday, March 10, 6 50 P. M. Still.

No. 1906 Massachusetts Avenue. Owned and occupied by Chas. F. Hathaway as bakery. No loss. Cause, defect in oven.

Saturday, March 11, 8.30 A. M. Still.

No. 11 Winter Street. Owned by Cornelius Lane. No loss. Occupied by C. J. Riley as dwelling. Loss, $25. No insurance. Cause, sparks from stove ignited table cover.

Saturday, March 11, 11.30 P. M. Automatic.

Accidental automatic from National Biscuit Co.

Sunday, March 12, 1 27 A M. Box 26.

No. 46 State Street. Owned by Sarah Nash. Loss, $50. No insurance. Occupied by F. Auld as storehouse. Loss, $200. No insurance. Occupied by Frank Jones as storehouse. Loss, $785. Insurance, $1,250. Cause, unknown.

Sunday, March 12, 2.24 A. M. Box 25.

No. 15 State Street. Owned by Russ Estate No loss. Occupied by Frank Kearney as dwelling. Loss trifling. Cause, oil lamp overturned.

Wednesday, March 15, 11.05 P. M. Box 9.

Rear No. 20 Otis Street. Owned and occupied by Irving & Casson. Loss, trifling. Cause, spontaneous combustion of oily rags in closet in boiler room.

Saturday, March 18, 8.30 A. M Still.

No. 17½ Gore Street Occupied by Daniel Fitzgerald as dwelling. Loss, trifling. Cause, smoking pipe in bed.

Saturday, March 18, 9.14 A. M. Box 152.

Massachusetts Avenue. Owned by Old Cambridge Baptist Church. Cause, smoke mistaken for fire.

Tuesday, March 21, 11.30 A. M. Still.

No. 3 Coolidge Place. Owned by Rogers Bros. No loss. Occupied by Louis Miller as dwelling. No loss. Cause, oil stove taking fire.

Wednesday, March 22, 4.25 P. M. Still.

No. 1102 Massachusetts Avenue. Owned by W. H. Wentworth. No loss. Occupied by W. L. Potter as dwelling. No loss. Cause, child playing with matches.

Friday, March 24, 3.23 P. M. Box 12.

No. 201 Bridge Street. Owned and occupied by William F. Ross as factory. No loss. Cause, dust, etc., over boiler ignited.

Saturday, March 25, 6.32 P. M. Box 29.

No. 32 Webster Avenue. Owned by Mary Coughlin. Loss, $344. Insurance, $2,000. Occupied by George Locke. No loss. Cause, defective chimney.

Monday, March 27, 12.25 P. M. Still.

No. 2 Mercer Circle. Owned and occupied by Elizabeth Y. Hayes. No loss. Cause, smoke mistaken for fire.

Monday, March 27, 6.35 P. M. Still.

No. 5 Lambert Street. Owned by J P. Squire Estate. Occupied by John Russell. No loss. Cause, soot in chimney.

Tuesday, March 28, 8.32 P. M. Box 52.

No. 1022 Massachusetts Avenue. Owned and occupied by John O'Brien as greenhouse. No damage. Cause, smoke mistaken for fire.

Wednesday, March 29, 4.23 A. M. Box 131.

No. 184 Otis Street. Owned by Abbie M. Bettinson. Loss, $160. Insurance, $3,500. Occupied by Maurice Richards as dwelling. Loss, $50.30. Insurance, $1,000. Cause, smoking pipe in bed. Jeremiah Moran was suffocated. Occupied by Jeremiah Moran. Loss, $58. No insurance.

Thursday, March 30, 8.03 P. M. Box 73.

No. 30 Clifton Street. Owned by N. E. Brick Co. No loss. Occupied by Samuel Lessard as dwelling. Loss, trifling. Cause, child overturned lamp.

Thursday, March 30, 8.30 P. M. Box 178.

No. 11 Fenno Street. Owned by Frank L. Blood. No loss. Occupied by Wm. D. Campbell as dwelling. No loss. Cause, lamp took fire.

Friday, March 31, 7.07 P. M. Box 27.

No. 1 Torrington Street. Owned by John Blight. Loss, $300. Insurance, $2,500. Occupied by John Blight as dwelling. Loss, $144. Insurance, $350. Cause, lamp overturned on table.

APRIL.

Sunday, April 2, 10.18 A. M. Box 169.

No. 140 Rindge Avenue. Owned by David Humphrey. No loss. Occupied by M. J. Delaney as dwelling. No loss. Cause, soot in chimney.

Sunday, April 2, 3.45 P. M. Still.

No. 21 Lambert Street. Owned by John Hurbert. Loss, $20. Insurance, $1,500. Occupied by Powell Trousky as dwelling. No loss. Cause, rags hanging near stove.

Monday, April 3, 10.55 A. M. Box 427.

No. 208 Broadway. Owned by T. W. Pierce Estate. No loss. Occupied by Doten Dunton Co , as factory. Loss, $375. Insurance, $50,000. Cause, overheated dry house.

Monday, April 3, 11.10 A. M. Box 271.

No. 2409 Massachusetts Avenue Owned by Charles A. Mason. No loss. Occupied by Anthony L. Mottler. No loss. Cause, supposed sparks on roof from locomotive.

Tuesday, April 4, 3.52 A. M. Box 412.

First Street. Owned by George W. Harvey. Loss, trifling. Occupied by Geo. W. Harvey as stable and storage. Loss, $350. Insurance, $350. Cause, supposed rats and matches.

Tuesday, April 4, 10.45 A. M. Still.

No. 44 Porter Street. Owned and occupied by William Carroll as dwelling. No damage. Cause, chimney afire

Wednesday, April 5, 12.45 A. M. Still.

No. 77 Orchard Street. Owned by Alexander McMaster. Loss, $15. Insurance, $3,800. Occupied by Mabel I. Martin as dwelling. Loss, $33 40 Insurance, $1,500. Cause, lamp set fire to clothes in closet.

Sunday, April 9, 7.23 A. M, Box 126.

No. 78 Cherry Street. Owned by Viola Murphy. No loss. Occupied by Viola Murphy as dwelling. No loss. Cause, hot ashes in cellar.

Sunday, April 9, 12.45 P. M. Still.

Foot of Francis Avenue. Owned by C. E. Norton. Brush fire.

Monday, April 10, 12.13 P. M. Box 148.

No. 2 Ellsworth Park. Owned by Wm. F. Clark. Loss, $30. Insurance, $4,500. Occupied by Alton C Sherman as dwelling. No loss. Cause, supposed careless dropping lighted match on roof of ell.

Monday, April 10, 12.36 P. M. Box 139.

No. 524 Putnam Avenue Owned by Chas. Montgomery. No loss. Occupied by Chas. H. Applegate as dwelling. No loss. Cause, chicken incubator afire.

Thursday, April 13, 10.17 P. M. Box 68.

No 1971 Massachusetts Avenue. Owned by Frank Ivers. Loss, $150. Insurance, $450. Occupied by Chas K. Leach as paint shop. Loss, $112.50. Insurance $600. Cause, oily rags. Occupied by Frank Hutchins as insurance office. Loss, $100. No insurance. Cause, exposure.

Friday, April 14, 1.15 P.M. Box 162.

No 11 Foster Street. Owned by Mary B. Doyle Estate dwelling. No loss. Cause, soot in chimey.

Friday, April 14, 3.15 P. M. Still.

No. 647 Cambridge Street Owned by John A. Hedin. No loss. Occupied by several familes as dwelling. No loss. Cause, oily rags in cellar.

Saturday, April 15, 4.19 P. M. Box 28.

No 30 Davis Street. Owned by Michael J. Welch. Loss, $25. Insurance, $1,500. Cause, sparks on roof from iron foundry.

Sunday, April 16, 1.03 P. M, Box 52.

No 991 Massachusetts Avenue. Owned by Taft & Waite. Loss, $80. Insurance, $40,000. Occupied by J. M. Singleton et al. No loss. Cause, fire thrown from window onto awning.

Monday, April 17, 6.45 P.M. Still.

No. 272 Cambridge Street. Owned by Annie E. McCraffrey. No loss. Occupied by Charles Bunstein as furniture store. Loss, $75 Insurance $800. Cause, careless throwing down match when lighting gas.

Tuesday, April 18, 4.20 P. M. Box 425.

No. 153 Green Street. Owned by Thomas Sheehan. Loss, $113. Insurance, $700. Occupied by Mullen & Sawyer as paint shop. Loss, trifling. Cause, spontaneous combustion of oily rags.

Tuesday, April 18, 5.51 P. M. Box 32.

No. 952 Cambridge Street. Cause, rubbish in open field.

Wednesday, April 19, 10.19 A. M. Box 158.

No. 26 Crescent Street. Owned by Timothy J. Breen. Loss, $350. Insurance, $2,000. Occupied by Wm. J. Perry as dwelling. Loss, $10. No insurance. Cause, sparks from chimney on roof. No. 28. Owned by Timothy J. Breen. Loss, $10. Insurance, $1,200. Cause, exposure.

Wednesday, April 19, 3.45 P. M. Still.

Grass fire near Fresh Pond. Alarm needless.

Wednesday, April 19. 8.25 P. M. Box 162.

Corner Mt. Auburn and Willard Street. Bon-fire made by boys.

Thursday, April 20, 10.00 P. M. Still.

No. 162 Western Avenue. Owned by Samuel Knight Estate. No loss. Occupied by A. J. Bennett as dwelling. Less, trifling. Cause, candle ignited curtain.

Monday, April 24, 4.23 P. M. Box 28.

Rear No. 49 Broadway. Owned by James Grosk. Loss, trifling. Cause, sparks on roof from iron foundry.

Monday, April 24, 10.50 P. M. Box 121.

No. 19 Peters Street. Owned by Mary E. Peters. Loss trifling. Occupied by Alice Woodman as dwelling. Loss, $173.50. Insurance, $1,000. Cause, oil lamp exploded.

Wednesday, April 26, 5.40 P. M. Automatic.

No. 129 Franklin Street. Owned by National Biscuit Co. Cause, accidental automatic.

Thursday, April 27, 10.41 P. M. Box 41

No. 140 Pleasant Street. Owned and occupied by Patrick D. Collins as grocery store. No loss. Cause, fire from cigar in bag of sawdust.

Friday, April 28, 3.17 P. M. Box 412.

No. 215 First Street. Owned and occupied by Ginn & Co. as publishing house. Cause, accidental automatic.

Friday, April 28, 5.15 P M. Still.

No. 54 Brookline Street. Owned by Harvard College. No loss. Occupied by Maurice White as dwelling. No loss. Cause, water boiled away from kettle of greens, causing smoke.

Saturday, April 29, 5.22 P. M. Box 34.

No. 113 Hampshire Street. Owned by Addie L. Putnam. No loss. Cause, soot in chimney.

Saturday, April 29, 9.50 P. M. Box 26.

No 790 Main Street. Owned by Emma A. Cutter. No loss. Occupied by John A. O'Donnell as dwelling. Loss, trifling. Cause, man smoking pipe on couch.

Sunday, April 30, 8 50 P. M. Box 178.

No. 268 Walden Street. Owned by Evariste Metivier. Loss, $115. Insurance, $2,500. Occupied by Antime Bolduc as dwelling. Loss, $76. Insurance, $700. Cause, sparks from stove ignited curtain.

MAY.

Monday, May 1, 11.59 A. M. Box 153.

No. 17 Riverside Avenue. Owned by Harvard Riverside Association. Loss, $10. Insurance, $1,000. Occupied by Benjamin Robinson. No loss. Cause, sparks on roof.

Monday, May 1, 1 20 P. M. Box 137.

No. 147 Putnam Avenue. Owned by Soloman Rosenberg. No loss. Occupied by Florence Spriggs as dwelling. Loss, trifling. Cause, child stepped on match and ignited carpet and lounge.

Monday, May 1, 8.54 P. M. Box 92.

Holworthy Street. Owned by City of Cambridge. Loss, trifling. Structure used as bell tower and storage for coal. Cause, supposed set afire by boys.

Wednesday, May 3, 12 06 P. M. Box 12.

False alarm given by boy.

Friday, May 5, 12.01 P. M. Box 35.

No. 1 Richardson Street. Owned by Asa Lamson. No loss. Occupied by Louis Aaron as dwelling. No loss. Cause, soot in chimney.

Friday, May 5, 4.00 P. M. Box 136.

No. 543 Massachusetts Avenue. Owned by H. J. Powers. Loss, $96. Insurance, $15,000. Occupied by Harold S. Bennet as millinery store. Loss, $685. Insurance, $3,000. Cause, electric wires in basement.

Saturday, May 6, 12 38 P. M. Box 8.

No. 6 Thorndike Street. Owned by Isaac Friedman. No loss. Occupied by C. S. Switzler as factory. No loss. Cause, gas exploded under boiler for making belt dressing.

Sunday, May 7, 9.33 P. M. Box 54.

No. 469 Broadway. Owned by Elizabeth M. Hoppin. No loss. Occupied by Anna C. Townsend as dwelling. Loss, trifling. Cause, gas light ignited curtain.

Sunday, May 7, 11.20 P. M. Box 41.

No. 92 Pleasant Street. Owned by Charles P. Keith. Loss, $270. Insurance, $5,000. Occupied by Joseph S. Ralph as dwelling. Loss, $35. Insurance, $300. Cause, supposed mice and matches.

Monday, May 8, 4 12 P. M. Box 53.

Rear No. 65 Mt. Auburn Street. Owned by Isaac McLean. Loss, $10. No insurance. Occupied by Mary McDonald as dwelling. No loss. Cause, cigar stub supposed to have been thrown onto roof from window in building opposite.

Tuesday, May 9, 3.42 P. M, Box 28.

No. 30 Davis Street. Owned by Michael J. Walch. Loss, $35. Insurance, $1,500. Cause, sparks on roof from iron foundry.

Wednesday, May 10, 1.30 P. M Still.

Near Bridge Street. Fire on bridge owned by B. & M. R. R. No loss. Cause, unknown.

Monday, May 15, 8.42 A. M. Box 73

No. 5 Jackson Street. Owned by Bridget Pickette. Loss, trifling. Occupied by Alfred Morel as dwelling. Loss, $75. Insurance, $500. Cause, child playing with matches in closet.

Monday, May 15, 12 P. M. Box 26.

No. 82 State Street. Owned by Blacker & Shepard. Occupied by Blacker & Shepard as planing mill. No loss. Cause, sparks from fire under boiler ignited shavings.

Tuesday, May 16, 9.59 A. M. Box 271.

No 2431 Massachusetts Avenue. Owned by James A. Henderson. No loss. Occupied by John A. Tupper as drug store. No loss. Cause, smoke mistaken for fire.

Saturday, May 20, 10.10 A. M. Box 26.

Main Street. Owned by Cambridge Building Co No loss. Occupied by George Close as candy factory. No loss. Cause, overheated stove pipe.

Saturday, May 20, 10.30 A. M. Box 16.

No. 108 Broadway. George W. Abbott, Agent No loss. Occupied by Edward Gillam as dwelling. No loss. Cause, rubbish in cellar, children playing with matches.

Saturday, May 20, 4.42 P. M. Box 24.

No. 200 Brookline Street. Owned by James A. Furfey. No loss. Unoccupied. Cause, rubbish under building set afire by children.

Tuesday, May 23, 5.00 P. M. Automatic

No. 129 Franklin Street. Owned by National Biscuit Co. Cause, accidental automatic alarm.

Tuesday, May 23, 11.15 P. M. Still.

No 8 Berkeley Street. Owned by Mrs. W. R. Thayer. Loss, $30. Insurance, $10,000. Occupied by Mrs. W. R. Thayer as dwelling. Loss, $36. Insurance, $5,000. Cause, candle ignited clothes in closet.

Thursday, May 25, 4 P. M. Box 175.

Grass fire near Walden Street Railroad Bridge.

Friday, May 26, 8.28 A. M. Box 39.

No. 27 Rockingham Street. Owned by Albert H. Sibley. Loss, $10. Insurance, $200. Cause, hot ashes in barrel ignited outside of shed.

Friday, May 26, 9 A. M. Automatic.

No. 28 Otis Street. Owned by Shaw Bros. No loss. Cause, accidental automatic alarm.

Friday, May 26, 7.17 P. M. Box 52.

Near Putnam Square. Cause, electric car burned out fuse.

Saturday, May 27, 7.35 P. M. Still.

No. 1 Jefferson Street. Owned by Jeremiah Hegety, dwelling. Cause, soot afire in chimney. No loss.

Sunday, May 28, 11.30 A. M. Still.

No. 74 Antrim Street. Owned by John Donelly. Loss, $20. Insurance, $3,500. Occupied by John Donelly as dwelling. Loss, $105.75. Insurance, $1,200 Cause, children playing with matches.

Monday, May 29, 9.30 A. M. Still.

No. 18 Hadley Street. Owned by E. F. Forbes. Loss, $13. Insurance, $2,000. Occupied by M. E. Church as dwelling. Loss, $40. No insurance.

Monday, May 29, 1.49 P M. Still.

No. 6 Bond Street. Cause, rubbish near fence.

Monday, May 29, 7.56 P. M. Box 29.

No. 199 Clark Street. Owned by Richard Powers. Cause, rubbish in yard.

Tuesday, May 30, 9.14 A. M. Box 28.

No. 38 Burleigh Street. Occupied by James Bourne as dwelling. Cause, smoke from stove mistaken for fire.

Tuesday, May 30, 2.15 P. M. Box 71.

No. 40 Bismark Street Owned and occupied by Mary A. James as dwelling. Loss, trifling. Cause, hot ashes in barrel under piazza.

Wednesday, May 31, 12.38 P. M. Box 73.

No. 5 Clifton Street. Owned by Mary Volbert. No loss. Occupied by Mary E. Eldridge as dwelling. No loss. Cause, oil stove taking fire.

Wednesday, May 31, 4.47 P. M. Box 24.

No. 72 Brookline Street. Owned by Justin E. Grigg, unoccupied dwelling. Loss, trifling. Cause, set afire by boys.

JUNE.

Thursday, June 1, 7.25 A. M. Box 149.

No. 17 Magnolia Avenue. Owned and occupied by Michael Richardson as dwelling. No loss. Cause, soot afire in chimney.

Friday, June 2, 1.24 P. M. Box 162.

No. 17 Bradbury Street. Owned by Edward Moore, unoccupied dwelling. No loss. Cause, set afire by boys.

Friday, June 2, 11.14 P. M. Box 445.

Putnam Avenue. Owned by City of Cambridge, unoccupied schoolhouse. No loss. Cause, oily waste in barrel.

Saturday, June 3, 8.15 A. M. Still.

No. 210 Otis Street. Owned by Ernest Flintzy, unoccupied dwelling. No loss. Cause, rubbish against building set afire by boys.

Sunday, June 4, 9.23 A. M. Box 14.

No. 9 Seventh Street Occupied by John Fitzgerald as dwelling. No loss. Cause, soot afire in chimney.

Sunday, June 4, 12.03 P. M. Still.

No. 465 Massachusetts Avenue. Occupied by John T. Connor as grocery. No loss. Cause, supposed cigar thrown into cellar igniting rubbish.

Monday, June 5, 11 42 P. M. Box 19.

Massachusetts Avenue. Owned by Riverbank Court corporation. Occupied by several families. No loss. Cause, steam from exhaust on roof mistaken for fire.

Thursday, June 8, 4.46 A. M. Box 29.

No. 44 Union Street. Owned by Edward Norton. Loss, $621. Insurance, $1,500. Occupied by Wm. H. McLean as dwelling. Loss, $207. Insurance, $250. Cause, lamp exploded on table. No. 42 Union Street. Owned by David Harrell. Loss, $117 50. Insurance, $2,400. Cause, exposure.

Thursday, June 8, 12.22 P. M. Still.

No 879 Main Street. Owned by Mrs. White. No loss. Cause, rags in rear of house.

Thursday, June 8, 9.45 P. M. Still.

No. 195 Brattle Street. Owned and occupied by George P. Baker as dwelling. No loss. Cause, soot in chimney.

Monday, June 12, 5.54 P. M. Box 24.

No. 200 Brookline Street. Owned by James Furfey, unoccupied building. No loss. Cause, set afire by boys.

Monday, June 12, 7.04 P. M. Box 14.

No. 24 Seventh Street. Owned by Jeremiah Crowley. No loss. Cause, soot afire in chimney.

Saturday, June 17, 12.36 A. M. Box 422.

No. 188 Main Street. Owned and occupied by Roberts Iron Works. No loss. Cause, defective foundation of furnace.

Saturday, June 17, 8.56 A. M. Box 17.

No. 23 Portland Street. Owned and occupied by J. T. Robinson. Cause, smoke from stove mistaken for fire.

Sunday, June 18, 2.32 P. M. Box 162.

Sparks, corner Foster Street. Owned by several parties. Pile of walk boards set afire by boys. Loss, trifling.

Monday, June 19, 3.30 P. M. Box 162.

Bradbury Court. Owned by Edward R Moore. Condemned building set afire by boys.

Friday, June 23, 1.32 P. M. Still.

No. 15 Worcester Street. Owned and occupied by Mary J. Mercer as dwelling. No loss. Cause, soot afire in chimney.

Saturday, June 24, 4.29 P. M. Box 16.

No. 90 Broadway. Owned by Robert C. Bird, Pres. Loss, $376. Insurance, $4,000. Occupied by Broadway Iron Foundry Co. Loss, $150. Insurance, $2,000. Cause, fire left in forge ignited wood work.

Sunday, June 25, 8 43 P. M. Box 115.

Conlan Court Owned by Patrick H. Conlan, dwelling. No loss. Cause, soot afire in chimney.

Monday, June 26, 6 45 P. M. Box 162.

Bradbury Court. Owned by Edward R. Moore. Condemned building set afire by boys.

Wednesday, June 28, 3.00 P. M. Box 63.

No. 105 Brattle Street. Owned by Longfellow Estate. Arbor set afire by children playing with matches.

Friday, June 30, 7.42 P. M. Box 32.

No. 1018 Cambridge Street Owned by Maurice Silverman. No loss. Occupied by Joseph Harris as dwelling. Loss, trifling. Cause, candles on table ignited curtain.

JULY.

Monday, July 3, 4.43 P. M. Box 116.

Monroe Street. Owned by Dominick McDonough. Loss, $2,000. Insurance, $3,000. Unoccupied barn. Cause, supposed set afire by boys Stable. Owned by William S. Moore. Loss, $650. Insurance, $2,000. Cause, exposure.

Tuesday, July 4, 3.11 A. M. Box 68.

No. 1992 Massachusetts Avenue Owned by Brooks & Conley. Loss, $200. No insurance. Occupied by John Russo as fruit store. Loss, $475. Insurance, $500. Cause, gasoline torch exploded. No. 1990 Massachusetts Avenue Owned by Brooks & Conley as hotel Loss, $55 Insurance, $4,000. Cause, exposure. No. 1994 Massachusetts Avenue. Owned by Brooks & Conley as dwelling. Loss, $89. Insurance, $18,000. Cause, exposure.

Tuesday, July 4, 3.13 A. M. Box 24.

No. 72 Brookline Street. Owned by Justin E. Grigg. Condemned building set afire by some unknown person.

Tuesday, July 4, 3.15 A. M. Box 31.

Alarm given for fire in Somerville.

Tuesday, July 4, 8.52 P. M. Box 15.

No. 315 Vine Street. Owned by Frank J. Glazier. Loss, $22. Insurance, $1,000. Occupied by Caul B. Prohnest as dwelling. Loss, $50. Insurance, $800. Cause, lamp exploded in clothes closet.

Tuesday, July 4, 9.02 P. M. Box 151.

No. 326 Harvard Street. Owned by Herbert A. Sparrow. Loss, $40. Insurance, $4,000. Occupied by Herbert A. Sparrow as dwelling. Loss, $10. Insurance, $1,000. Cause, skyrocket entered room through window.

Tuesday, July 4, 9.03 P. M. Still.

No. 202 River Street Owned by John Curley. Loss, $32. Insurance, $1,200. Occupied by John Curley as dwelling. Loss, $58. Insurance, $500. Cause, skyrocket entered room through window.

Thursday, July 6, 10.20 P. M. Box 45.

No 240 Franklin Street. Owned and occupied by F. Churchill as laundry. Cause, gaslight left burning and thought to be fire.

Monday, July 10, 3.17 P. M. Box 178.

Near Garden Street. Owned by N. E. Brick Co. Cause, sheds set afire by boys. Loss, trifling.

Wednesday, July 12, 9.25 P. M. Box 34.

No. 295 Windsor Street. Owned by F. W. Dallinger. No loss. Occupied by Geo. Hutchinson as dwelling. Loss, trifling. Cause, curtain in contact with gaslight.

Friday, July 14, 10.48 A. M. Box 178.

Near Garden Street. Owned by N E. Brick Co. Cause, kilns and benches set afire by boys. Loss, trifling.

Friday, July 14, 9.42 P. M. Box 153.

No. 96 Plympton Street. Owned by Harvard Riverside Association. Loss, $465. Insurance, $3,000. Occupied by W. F. Blair as dwelling. Loss, trifling. Cause, rats and matches.

Saturday, July 15, 8.15 P. M. Box 152.

No 5 Bow Street. Owned by University Association. Loss, $50. Insurance, $3,000. Occupied by Harvard Auto Co., as auto stable. Loss, $55. Insurance, $1,000. Cause, spontaneous combustion of oily waste.

Sunday, July 16, 12.26 A. M. Box 113.

No. 194 Vine Street. Owned by James J. Corballis. Loss, $110. Insurance, $2,000. Unoccupied dwelling. Cause, old mattress set afire by some person unknown.

Sunday, July 16, 1.12 A. M. Box 442.

No. 20 Blackstone Street. Owned and occupied by Houghton & Co., as store shed. Loss, trifling. Cause, supposed to be spontaneous combustion in paint.

Sunday, July 16, 3.57 P. M. Box 1.49.

Grass afire on Farrar Street.

Sunday, July 16, 11.28 P. M. Box 52.

Putnam Avenue. Fuse exploded in box on telegraph pole.

Wednesday, July 19, 9.40 A. M. Box 24.

No. 72 Brookline Street. Owned by Justin E. Grigg. Condemned building set afire by boys.

Friday, July 21, 10.31 A. M. Box 152.

No. 1162 Massachusetts Avenue. Occupied by Edward O'Hara as dwelling. Loss, trifling. Cause, match thrown from window onto roof.

Friday, July 21, 12.52 P. M. Box 443.

Rear No. 387 Western Avenue. Owned by Isaac Nissen. Loss, trifling. Cause, fire from dump extended to house.

Saturday, July 22, 9.38 P. M. Box 52.

No. 2 Putnam Avenue. Owned by Dr Southwick. No loss. Occupied by Fred L. Churchill as bakery. Loss, trifling. Cause, gas light ignited draperies in window.

Monday, July 24, 4.28 P. M. Box 79.

False alarm given by some malicious person.

Monday, July 24, 8.04 P. M. Box 271.

No. 8 Westerly Avenue. Owned by Maurice Green. No loss. Occupied by Maurice Reidy as dwelling. Loss, $20. Insurance, $500. Cause, sparks from locomotive ignited lace curtain.

Monday, July 24, 11.15 P. M. Box 271.

No. 52 Yorktown Street. Owned by Peter Gernan. Loss, $594. Insurance, $600. Occupied by Peter Berbus as stable. Loss, $184.20. Insurance, $300. Cause, incendiary.

Tuesday, July 25, 3.35 P. M. Box 73.

No. 281 Rindge Avenue. Rubbish in yard.

Wednesday, July 26, 12.10 P. M. Box 139.

Rear No. 204 Erie Street. Owned by Horace R. Richardson. Loss, $400. Insurance, $400. Occupied by C. L. Parker and E C. Ireland as stable. Loss, $175. No insurance. Cause, unknown. Originated in shed. No. 202–204 Erie Street. Owned by H. R Richardson, dwelling. Loss, $40. Insurance, $3,400. Cause, exposure. No. 200 Erie Street. Owned by Estate of John Ford, dwelling. Loss, $75. Insurance, $1,600. Cause, exposure.

Wednesday, July 26, 5.10 P. M. Box 89.

Fresh Pond Park. Tree set afire by boys.

Wednesday, July 26, 7.50 P. M. Box 34.

No. 49 Union Street. Owned by B. J. Twombly. No loss. Occupied by Peter Harvey as dwelling. No loss. Cause, rags on stove oven door ignited.

Thursday, July 27, 6.50 P. M. Box 16.

No. 4 Harvard Place. Owned by Peter F. O'Rourke. No loss. Occupied by Gabriel Rogers as dwelling. Loss, $25. No insurance. Cause, incendiary fire in beds.

Friday, July 28, 11 32 A. M. Box 137.

No. 243 Western Avenue. Owned by John Mulligan. Loss, $17. Insurance, $3,500. Cause, henhouse supposed to have been set afire by children.

Friday, July 28, 3.17 P. M. Box 72.

No. 75 Read St. Owned by Michael Melvin. No loss. Unoccupied dwelling. Cause, set afire by some person unknown.

Friday, July 28, 3.25 P. M. Box 271.

Alarm needless, given for fire at Box 72.

Friday, July 28, 8.50 P. M. Box 72.

No. 75 Read Street. Owned by Michael Melvin. No loss. Unoccupied dwelling, set afire by some person unknown.

Saturday, July 29, 3.05 P. M. Box 234.

No. 49 Tremont Street. Owned by Ellen Hewes. No loss. Occupied by Albert Cunha as dwelling. No loss. Cause, oil stove exploded.

AUGUST.

Tuesday, Aug. 1, 9.00 A. M. Still. Automatic.

No. 129 Franklin Street. Owned by National Biscuit Co. Cause, accidental automatic alarm.

Wednesday, Aug. 2, 4.46 P. M. Box 162.

No. 19 Bradbury Street. Owned by Thomas P. Haywood. Loss, trifling. Fire in woodshed. Cause, unknown.

Wednesday, Aug. 2, 7.05 P. M. Box 145.

No. 551 Franklin Street. Owned by Jeremiah Crowley. Loss, $65. Insurance, $1,900. Occupied by Howard E. Nash as dwelling. Loss, trifling. Cause, overheated stove.

Thursday, Aug. 3, 9.15 A. M. Still.

No. 257 Elm Street. Owned by Martha D. Frost. Cause, smoke from stove mistaken for fire.

Thursday, Aug. 3, 1.55 P. M. Still.

No. 4 Harvard Place. Owned by Peter F. O'Rourke. No loss. Occupied by Gabriel Rogers as dwelling. No loes. Cause, incendiary, fire on bed.

Thursday, Aug. 3, 11.04 P. M. Box 14.

No. 472 Cambridge Street. Owned by Hugh Scanlan Loss, $30.80. Insurance, $2,000. Occupied by John Thompson as dwelling. Loss, $53. Insurance, $3,000. Cause, Japanese lanterns taking fire in room.

Saturday, Aug. 5, 4.25 P. M. Box 32.

No. 934 Cambridge Street. Occupied by Benj. Katz. No loss. Cause, soot afire in chimney.

Tuesday, Aug. 8, 7.46 P. M. Box 73.

Rear No. 40 Jackson Street. Owned by Esthia Cornish. Loss, trifling. Cause, hen house set afire by boys.

Tuesday, Aug. 15, 3.46 P. M. Box 15.

No. 230 Vine Street. Owned and occupied by Geo Lakschewitz. Cause, rubbish in cellar, children with matches. Trifling.

Saturday, Aug. 19, 11 54 A. M. Box 29.

No. 22 Bristol Street. Owned by John Gadsby. Loss, $30. Insurance, $3,000. Occupied by Jeremiah Connors as dwelling. Loss, $70. Insurance, $1,000. Cause, supposed dropping lighted match on bed.

Sunday, Aug. 20, 5.31 A.M. Box 32.

No. 1000 Cambridge Street. Owned by Mortimer Downey. Loss, $58. Insurance, $1,500. Occupied by Jackson Club as club room. Cause, fire left in wooden cuspidor.

Wednesday, Aug. 23, 4.17 P. M. Box 137.

No. 310 Western Avenue. Owned by Thomas H. Armstrong. No loss. Occupied by James Saltman as dwelling. Loss, trifling. Cause, defective electric motor.

Friday, Aug. 25, 3.15 A. M. Box 134.

No. 299 Prospect Street. Owned by Maurice E. Kennaly Loss, $342. Insurance, $1,500. Occupied by Maurice E Kennaly as manufactory. Loss, $837.92. Insurance, $4,000. Cause, supposed match was thrown on oily floor.

Saturday, Aug. 26, 1.54 P. M. Box 149.

No. 29 Myrtle Avenue. Owned by Lillian Davis et al. No loss. Unoccupied building. Cause, empty tar barrels set afire by boys.

Saturday, Aug. 26, 7.50 P. M. Box 42.

No. 20 Blackstone Street. Owned and occupied by H. O. Houghton & Co., storage shed. Loss, $25. No insurance. Couse, unknown. Alarm was given from Box 442 unnecessarily.

Tuesday, Aug. 29, 4.22 P. M. Box 46.

No. 458 Green Street. Owned by Sarah E. Marcy. Loss, $259. Insurance, $3,500. Occupied by Ainsly R. Atkinson as dwelling. Loss, $30. Insurance, $500. Cause, children playing with matches under sink.

Thursday, Aug. 31, 11.58 A. M. Box 135.

No. 40 Bigelow Street. Owned and occupied by F. A. Nay as dwelling. Cause, smoke from stove mistaken for fire.

Thursday, Aug. 31, 12.55 P. M. Still.

No. 77 Gove Street. Owned and occupied by David Hurley as dwelling. No loss. Cause, soot afire in chimney.

SEPTEMBER.

Friday, Sept. 1, 1.38 A. M. Box 13.

No. 336 Cambridge Street. Owned by Justina Denmon. Loss, $129. Insurance, $3,500. Occupied by Ephriam H Patton as drug store. Loss, $71. Insurance, $1,000 Cause, careless dropping match in waste paper in cellar.

Friday, Sept. 1, 8.56 A. M. Box 139.

No. 408 Putnam Avenue. Owned by Henry Thoma. Loss, $244. Insurance, $1,000. Occupied by Katie Quinn as dwelling. Loss, $50. No insurance. Cause, oil stove taking fire. Unnecessary alarm was given from Box 41, 9 A. M.

Friday, Sept. 1, 9.18 A. M. Still.

Walden Street. Owned by N. E. Brick Co. Loss, trifling. Cause, boys set fire to a pile of wood.

Sunday, Sept. 3, 9.20 P. M. Automatic.

No. 129 Franklin Street. Owned by National Biscuit Co. Cause, accidental automatic alarm

Thursday, Sept. 7, 3.04 P. M. Box 178.

No. 283 Walden Street. Owned by N. E. Brick Co. No loss. Cause, office building set afire by boys.

Friday, Sept. 8, 10.05 A. M. Box 42.

No. 258 Rivers Street. Owned by John Duffy. Loss, $175. Insurance, $2,000. Occupied by Lottie M. Henry as dwelling. Loss, $270. No insurance. Cause, gasoline being used on mattress ignited from lighted match.

Sunday, Sept. 10, 8.30 A. M. Box 46.

No. 34 Hancock Street. Owned by Elizabeth Morgan. Loss, $34.13. Insurance, $750. Occupied by Elizabeth Morgan as dwelling. Loss, $38. Insurance, $258. Cause, oil stove taking fire

Thursday, Sept. 14, 7.16 P. M. Box 84.

No. 385 Huron Avenue. Owned by Robert Hixon estate. Loss, $235. Insurance, $2,800 Occupied by William E. Chase as dwelling. Loss, $148. Insurance, $1,000. Cause, lamp fell on floor and broken.

Thursday, Sept. 14, 8.23 P. M. Box 24.

No. 72 Brookline Street. Owned by Justin E. Grigg. No loss. Cause, unoccupied dwelling condemned, set afire by boys.

Thursday, Sept. 14, 9.20 P. M. Box 7.

Prison Point Street. Owned and occupied by B. & M. R. R. Cause, sparks on roof of gas house.

Thursday, Sept. 14, 12.15 P. M. Still.

No. 13 Mellen Street. Owned by F. G. Allnut. No loss. Cause, soot afire in chimney.

Friday, Sept. 15, 1.40 A. M. Box 178.

No. 55 Stearns Street. Owned by Timothy O'Donovan. Loss, $475. Insurance, $1,500. Occupied by Timothy O'Donovan as dwelling, Loss, $360. Insurance, $500. Cause, supposed rats and matches.

Saturday, Sept. 16, 6.01 P. M. Box 24.

No. 7 Decatur Street. Owned by Michael Griffin. No loss. Occupied by Annie Lucas as dwelling. No loss. Cause, sparks from stove ignited rags.

Tuesday, Sept. 19, 1 20 P. M. Box 271.

No. 75 Reed Street. Owned by Michael Melvin. Cause, unoccupied house set afire by some unknown person.

Thursday, Sept. 21, 5.25 P. M. Still.

No. 75 Reed Street. Owned by Michael Melvin. Cause, unoccupied house set afire by some unknown person.

Thursday, Sept. 21, 6.30 P. M. Still.

Walden Street. Owned by N. E. Brick Co. Cause, rubbish in yard set afire by boys.

Saturday, Sept. 23, 9.33 A. M. Box 34.

No. 1 Union Street. Owned by Mary Rowe Estate. Loss, $40. Insurance, $2,400. Occupied by John White as dwelling. No loss. Cause, sparks from chimney on roof.

Sunday, Sept. 24, 2.32 P. M. Box 34.

No. 267 Columbia Street. Owned by Elmer Bright. No loss. Occupied by Place's Box Co. No loss. Cause, rags in wagon, supposed careless smoking.

Monday, Sept. 25, 12.30 A. M. Still.

B. & M. R. R. Roundhouse in Somerville, assistance call for.

Tuesday, Sept. 26, 6.05 P. M. Box 29.

No. 71 Webster Avenue. Owned by Mark Segoff. No loss. Cause, hot ashes in ash box.

Friday, Sept. 29, 2.59 P. M. Box 26.

Massachusetts Avenue. Owned by Mass. Ave Land Trust Co., Charles River Park grand stand. No loss. Cause, careless smoking.

OCTOBER.

Monday, Oct. 2, 7.20 A. M. Box 26.

No. 21 Harrison Street. Owned by Oscar Petterson. Loss, $10. Insurance, $10,000. Occupied by Peter Faris as dwelling. Loss, $25. No insurance. Cause, cleaning couch with gasoline, ignited from lighted match.

Wednesday, Oct. 4, 6.30 P. M. Still.

No. 2 Winter Spreet. Owned by J. P. Squire's Estate. No loss. Occupied by John Souga as dwelling. No loss. Cause, lamp exploded.

Friday, Oct. 6, 4.22 P. M. Box 35.

No. 259A Broadway. Owned by Dennis McCarthy. No loss. Occupied by Wesley A. McSorly as dwelling. Loss, trifling. Cause, fire in bed, unknown

Friday, Oct. 6, 6.31 P. M. Box 438.

Albany Street. Owned and occupied by Geo. W. Gale Lumber Co., as mill. No loss. Cause, shavings on floor in boiler room.

Saturday, Oct. 7, 8.15 A. M. Still.

No. 728 Massachusetts Avenue. Owned by J. P. Thayer Estste. No loss. Occupied by M. A. Becker as dwelling. Loss trifling. Cause, overheated stove pipe through roof.

Sunday, Oct. 8, 5.09 P. M. Box 16.

False alarm given by some malicious person.

Monday, Oct 9, 11.42 A. M. Box 36.

No. 638 Main Street Occupied by J. A. Homes & Co., as grocery. No loss. Cause, smoke from fire in furnace in cellar.

Monday, Oct. 9, 1.10 P. M. Box 414.

No. 71 Ninth Street. Owned by Goepper Bros. Loss, $2,400. Insurance, $5,700. Occupied by Goepper Bros. as barrel factory. Loss, $25,000. Insurance. $25,000. Cause, unknown.

Monday, Oct. 9, 7.30 P. M. Still.

No. 4 Sherman Street. Owned by John F. O'Driscol. Cause, children with matches. No loss.

Tuesday, Oct. 10, 5.37 P. M. Box 34.

Opposite No. 86 Hampshire Street. Cause, tree afire.

Wednesday, Oct. 11, 1.05 P. M. Box 63.

No. 85 Brattle Street. Owned and occupied by J. W. Hayward. No loss. Cause, soot afire in chimney.

Wednesday, Oct. 11, 7.21 P. M. Box 46.

False alarm given by some malicious person.

Thursday, Oct. 12, 12.05 A. M. Box 37.

No. 67 Pleasant Street. Owned by Susan Hovey. Loss, $394. Insurance, $400. Unoccupied barn. Cause, supposed incendiary.

Friday, Oct. 13, 11.40 A. M. Still.

No. 16 Garden Street. Owned by John L. Hildreth. No loss. Occupied by Lyman Hapgood as dwelling. No loss. Cause, hot ashes in barrel in cellar.

Tuesday, Oct. 17, 6.54 P. M. Box 61.

No. 115 Mt. Auburn Street. Owned by New Bedford Institution for Saving. Loss, $250. Occupied by students as dormitory. Cause, heater for swimming tank exploded.

Wednesday, Oct. 18, 4 P. M. Box 61.

No. 115 Boylston Street. Owned by Wm. Elliott & Co. Loss, $450. Insurance, $600 Occupied by Wm. Elliott & Co. as blacksmith shop. Loss, $323. Insurance, $600. Cause, exposure from burning rubbish outside.

Wednesday, Oct. 18, 4.45 P. M. Box 73.

No. 10 Jackson Street. Owned by Chas. M. Cummings. Loss, $50. Insurance, $3,000. Occupied by Aldebert C. Jeffrey as dwelling. Loss, $89. Insurance, $350. Cause, stepping on match on floor igniting bed.

Wednesday, Oct. 18, 11.43 P. M. Box 31.

Alarm given for fire in Somerville.

Friday, Oct. 20, 6.50 A. M. Box 126.

No. 81 Pine Street. Owned by A. S. Harlow. No loss. Occupied by George Ackerman as dwelling. Loss, trifling. Cause, stove polish took fire from hot stove. Mrs. Ackerman's clothing took fire and she was badly burned.

Friday, Oct. 20, 3.21 P. M. Box 16.

No. 35 Harvard Street. Owned by Peter Heslin. Loss, $27. Insurance, $5,000. Occupied by Thomas Gallagher. No loss. Cause, child set fire to woodbox behind stove.

Saturday, Oct. 21, 1.15 P. M. Box 53.

No. 39 Bow Street. Owned by Peter Burns. Loss, $145. Insurance, $35,000. Occupied by Wm. E. Russell, Jr. as room and study. Loss, $100. No insurance. Cause, careless dropping match on rug.

Sunday, Oct. 22, 12.39 A. M. Box 14.

No. 22 Eighth Street. Owned by Jeremiah Crowley. No loss. Occupied by Dennis Flynn as dwelling. No loss. Cause, rubbish in cellar, supposed rats and matches.

Monday, Oct. 23, 3.19 P. M. Box 162.

Rubbish on Longfellow Park. Alarm not needed.

Tuesday, Oct. 24, 3.02 P. M. Box 92.

No 22 Holworthy Place. Owned by Michael Demillia. Cause, pile of wood set afire by children.

Wednesday, Oct. 25, 12.20 A. M. Box 14.

No. 162 Otis Street. Owned by Dennis Geary. No loss. Occupied by Peter Kelly as dwelling. No loss. Cause, careless dropping match in rags in cellar.

Wednesday, Oct. 25, 8.51 P. M. Box 12.

Alarm given for fire in Somerville.

Thursday, Oct. 26, 12.30 P. M. Box 73.

Alarm given for grass fire in Belmont.

Friday, Oct. 27, 11.13 P. M. Box 13.

No. 397 Cambridge Street. Owned by Charles Viano. Loss, $282. Insurauce, $2,500. Occupied by Samuel Tick shoe store. Loss, $121.25. Insurance, $1,000. Cause, incendiary in cellar.

Saturday, Oct 28, 12.47 A. M. Box 32.

No. 472 Windsor Street. Owned by Michael McGrath. No loss. Occupied by John Welch et al. No loss. Cause, incendiary. Originated in old couch in cellar.

Saturday, Oct. 28, 1 10 A. M. Still alarm.

No 130 Garden Street. Owned by Patrick Riley. Loss, $82. Insurance, $800. Occupied by Patrick Riley as dwelling. Loss, $50. No insurance. Cause, careless smoking ignited clothing.

Saturday, Oct. 28, 9.30 A. M. Still alarm.

Harvard Street. Baptist Church. Cause, smoke from flue thought to be fire on roof.

Sunday, Oct. 29, 2 P. M. Still alarm.

No. 31 Regent Street. Owned by Edward O. Cook, No loss. Occupied by James Leary as dwelling. No loss. Cause, paper in stove pipe hole afire.

Sunday, Oct. 29, 5.24 P. M.

False alarm given by some malicious person.

Monday, Oct. 30, 9.53 A. M. Box 72.

No. 4–6 George Street. Owned by Michael Goggan. Loss, $671. Insurance, $2,000 Occupied by Peter Pronovost as dwelling, Loss, $375. Insurance, $500. Occupied by John Dussett as dwelling. Loss, $25. Insurance, $500. Cause, child playing with matches.

Monday, Oct. 30, 9.08 P. M. Box 59.

No. 28 Boylston Street. Owned by Reed Estate. Loss, $30. Insurance, $800. Cause, awning ignited by fire thrown from window.

Tuesday, Oct. 31, 7.47 P. M. Box 169.

Rindge Park. Owned by City of Cambridge. Cause, ball back stop set afire by boys.

NOVEMBER.

Wednesday, Nov. 1, 12.07 A. M. Box 26.

State Street. Owned by Blacker & Shepard. Occupied by Blacker & Shepard as mill. No loss. Cause, sparks from fire under boiler ignited shavings.

Wednesday, Nov. 1, 3.00 A. M. Still alarm.

No. 251 Cambridge Street. Owned by Amos Fillebrown. No loss. Occupied by L. C. Keith as shoe store. Loss, trifling. Cause, careless dropping match behind desk.

Wednesday, Nov. 1, 4.58 P. M. Box 115.

False alarm given by some malicious person.

Friday, Nov. 3, 2.20 P. M. Still alarm.

No. 14 Rockwell Street. Owned by Joseph C. Matter. No loss. Cause, soot falling from chimney in cellar ignited rags.

Sunday, Nov. 5, 10.13 A. M. Box 16.

No. 61 Broadway. Owned by Daniel Swan. Loss, $4,000. No insurance. Occupied by Daly & Batcheldor, et al., as stable. Loss, $1,658. Insurance, $1,600. Cause, supposed rats and matches. Originated in locker on second floor.

Thursday, Nov. 9, 11.20 P. M. Automatic.

Accidental automatic alarm from Blanchard's machine shop.

Friday, Nov. 10, 5.35 P. M. Box 23.

No. 209 Green Street. Occupied by M. C. Jenkins as dwelling. No damage. Cause, smoke from furnace through floor register.

Monday, Nov. 13, 12.45 A. M. Still alarm.

No. 19 Front Street. Occupied by Burnice Noble. No loss. Cause, hot ashes in barrel.

Monday, Nov. 13, 5 P. M. Box 29.

No. 42 Webster Avenue. Owned by B. Andleman. No fire. Cause, steam from drying plastering in new house.

Tuesday, Nov. 14, 8.06 A. M. Box 36.

No. 40 Prospect Street. T. H. Raymond, Agent. No fire. Cause, steam from boiler in cellar.

Tuesday, Nov. 14, 12.45 P. M. Box 135.

No. 12 Inman Street. Owned by Martha B. Phillips. Loss, $155. Insurance, $8,000. Occupied by C. R. Phillips as dwelling. Loss, $100. Insurance, $5,000. Cause, oil heater exploded.

Tuesday, Nov. 14, 1.00 P. M. Still.

No. 1996 Massachusetts Avenue. Owned by Brooks & Conley. Loss, $97. Insurance, $2,500. Occupied by Thomas Robinson as dwelling. Loss, trifling. Cause, careless throwing fire into woodbox behind stove.

Tuesday, Nov. 14, 9.15 P. M. Still.

No. 35 Prospect Street. Owned by A. M. Robbins. Cause, rubbish in yard.

Wednesday, Nov. 15, 1.03 A. M. Box 16.

No. 77 Broadway. Owned by Robert Barbour. No loss. Cause, hot ashes in barrel in yard.

Wednesday, Nov. 15, 8.50 A. M. Still.

No. 50 Orchard Street. Owned by S. S. Lawrence. No loss. Occupied by Wm. J. Edwards as dwelling. No loss. Cause, stove rags in closet.

Wednesday, Nov. 15, 6.59 P. M. Box 72.

No. 75 Read Street. Owned by Michael Melvin. No loss. Unoccupied dwelling. Cause, set afire by boys.

Friday, Nov. 17, 2.25 P. M. Still.

Otis Street. Irving & Casson. Accidental automatic alarm

Saturday, Nov. 18, 2.29 P. M. Box 112.

No. 4 Water Street. Owned by Albion Briggs. No loss. Occupied by Florence Massy. No loss. Cause, smoke from stove.

Sunday, Nov. 19, 1.00 P. M. Still.

Fresh Pond Park. Cause, sparks from locomotive set fire to old tree.

Sunday, Nov. 19, 5.50 P. M. Still

No. 173 Otis Street. Owned and occupied by Mary Harrington as store. No loss. Cause, hanging lamp too high, ignited ceiling.

Sunday, Nov. 19, 6.19 P. M. Box 45.

No. 318 Franklin Street. Owned and occupied by Arthur R. Henderson as dwelling. No loss. Cause, soot in chimney.

Monday, Nov. 20, 7.28 P. M. Box 82.

No. 151 Brattle Street. Owned and occupied by Henry Endicott as dwelling. Loss, trifling. Cause, sparks from chimney on roof.

Tuesday, Nov. 21, 12.55 P M. Still.

No. 158 River Street. Owned by Joseph Doherty as dwelling. Loss trifling Cause, careless smoking. Fire on lounge.

Tuesday, Nov. 21, 1.45 P. M. Box 17.

Corner Hastings and Monroe Streets. Owned by Louisa Brush. Loss, trifling. Unoccupied dwelling. Cause, rubbish in cellar, set afire by children.

Tuesday, Nov. 21, 7.06 P. M. Box 68.

Richdale Avenue. Fence afire, near railroad.

Tuesday, Nov. 21, 9.20 P. M. Still.

No. 203 Auburn Street. Owned by W. H. Roberts. No loss. Unoccupied dwelling. Cause unknown, rubbish afire in cellar.

Wednesday, Nov. 22, 8 00 P. M. Still.

No. 80 Concord Avenue. Owned by John F. O'Brien. No loss. Cause, defective chimney.

Thursday, Nov. 23, 9.23 A. M. Box 14.

No. 6 Sixth Street. Owned by William Murray. Loss, $35. Insurance, $3,000. Occupied by John Vinicomb as dwelling. Loss, trifling. Cause, child playing with lighted lantern.

Thursday, Nov. 23, 12.53 P. M. Box 162.

No. 31 Willard Street Owned by John F. O'Brien Loss, $75. Insurance, $2,000. Occupied by Alice R. Moore. Loss, trifling. Cause, hot coal dropping from stove onto floor

Thursday, Nov. 23, 5.10 P. M. Box 73.

No. 350 Rindge Avenue. Owned and occupied by B La Croix. No loss. Cause, dropping lamp on floor.

Thursday, Nov. 23, 6 P. M. Box 29.

No. 58 Bristol Street. Owned and occupied by Richard M. Dean as dwelling. No loss. Cause, fire thrown into window igniting curtain.

Friday, Nov. 24, 1.09 P. M. Box 73.

Grass fire on railroad.

Friday, Nov. 24, 2.25 P. M. Still.

No. 28 Otis Street. Owned by Shaw Bros. Cause, accidental automatic alarm.

Saturday, Nov. 25, 9.14 A. M. Box 112.

No. 15 Water Street. Owned by Annie McMahon. Loss, $50. Insurance, $50. Cause, hot ashes in barrel in shed.

Saturday, Nov. 25, 3.31 P. M. Box 25.

Front Street. Owned by Mt. Olive Baptist Church Association. Loss, $447. Insurance, $15,000. Occupied by Mt. Olive Baptist Church Association as place of worship. Loss, trifling. Cause, overheated furnace.

Saturday, Nov. 25, 8.26 P. M. Box 71.

Brookford Street. Owned by Henderson Bros. Loss, $25. Insurance, $300. Cause, shed set afire by some person unknown.

Saturday, Nov. 25, 11.12 P. M. Box 34.

No. 26 Union Street. Owned by Standard Turning Co. Loss, trifling. Occupied by Gen. Battle as dwelling Loss, trifling. Cause, overturned lamp in chamber.

Saturday, Nov. 25, 10 30 P. M. Still.

No. 30 Harvard Street. Occupied by Michael J. O'Brien as shed. No loss. Cause unknown.

Sunday, Nov. 26, 8.25 P. M. Box 134.

False alarm.

Monday, Nov. 27, 7.05 P. M. Box 73.

No. 266 Rindge Avenue. Fence afire from rubbish.

Wednesday, Nov. 29, 3 11 P. M. Box 721.

False alarm.

Wednesday, Nov. 29, 11.52 P. M. Box 721.

False alarm.

Thursday, Nov. 30, 9.01 A. M. Box 53

No. 78 Mt. Auburn Street. Owned by Harvard Riverside Association. Loss, $60. Insurance, $3,000. Occupied by Chester Clark as dwelling. Loss, $20. No insurance. Cause, careless throwing fire into waste basket.

REPORT OF THE SCHOOL COMMITTEE FOR 1905

In compliance with Section 44 of the Rules of the School Board, the superintendent herewith submits his first annual report: —

Francis Cogswell was superintendent of schools until September first, 1905. This report is for the year ending December thirty-first, 1905. It is, therefore, a continuation of the record of Mr. Cogswell's administration.

The present superintendent has had the help of Mr. Cogswell's advice in many of the problems that have come up for consideration during the past four months, and the beginning of his work in Cambridge has been made most agreeable because he has had the privilege of daily intercourse with this leader, who for thirty years has so managed the difficult problems of school administration, that not only in Cambridge but also in the associations of those who are engaged in the work of school supervision, he is honored and beloved because of his keen judgment, strength of purpose, helpfulness in counsel and wisdom in management.

The tables of statistics, which contain much valuable information concerning the growth and the work of the Cambridge schools, appear in the usual form.

Abstracts from the reports of the standing committees give account of the special matters that have received attention during the year.

The shorter course in the grammar schools deserves special notice and careful study. A thoughtful reading of all the facts presented in the following pages treating of this subject will show that the shorter course works to the decided advantage of those pupils who are able to do thorough work with greater speed.

It gives an elasticity to the grammar course that makes it possible for a pupil to pursue his way freed to a large extent from the restraints that children of good ability, who are willing to work, often find in graded schools.

It is a feature of the work here that is attracting increasing attention wherever efforts are being made to furnish for each individual the greatest possible opportunities for advancement consistent with due regard for health, and for that free and happy life which is the right of every child.

Effort is being made to give effective attention to those children who are backward or discouraged. It has been found that by a readjustment of the program, so that less of the teacher's time is given to formal recitation, and more to directing the work that precedes recitation, many pupils are saved from discouragement and failure.

While it is clearly our duty to see that children who can do their work easily have freedom to progress rapidly, it is just as clearly our duty to prevent discouragement and failure.

Society suffers from the unhappy condition of those who have become discouraged and have failed early in life. The school should inculcate in children the habit of success.

In a good school everyone works with courage. No one is allowed to fall behind or to become disheartened, because the dominant good will of teacher and fellow pupil finds the very beginnings of tendencies toward failure and checks them.

As children gain greater power to do their prescribed work, and as they have greater joy in doing it, the number of pupils who go on from grade to grade is increased. The value of a primary or lower grammar grade is measured by the proportion of pupils who have earned promotion. The value of a higher grammar grade is in inverse ratio to the number of pupils who drop out during the year. A good school holds its pupils; for the experience of the children has shown them that every day there is afforded at the good school opportunity for increase in power that is worth going to get; their experience has shown, too, that the management of the good school is such that life in it is large and happy; and to such a school pupils are loyal with all the ardor of youthful enthusiasm and love.

Population of Cambridge.

1875	47,838	1895	81,643
1885	58,658	1905	97,434

School Census

Number of children in the city five years old or more, but less than fifteen.

1875 (taken in May)	8,128	1895 (taken in May)	12,869
1885 (taken in May)	10,957	1905 (taken in September)	15,858

Schools and Classrooms.

Latin School	1	Classrooms in use	17
English High School	1	" "	12
Rindge Manual Training School	1	" "	14
Grammar Schools	6	" "	84
Grammar and Primary Schools	11	" "	128
Primary Schools	16	" "	83
Kindergartens	16	" "	16
Evening High School	1	" "	11
Evening Drawing Schools	2	" "	4
Evening Manual Training School	1	" "	2
Evening Elementary Schools	4	" "	31
Whole number of Day Schools			52
Whole number of classrooms for Day Schools			354

Number of Teachers in the Day Schools.

[The directors of special studies and the teachers of sewing are included in the totals.]

December	Latin School	English High School	Manual Training School	Grammar Schools	Primary Schools	Kindergartens	Total
1901	22	24	14	177	143	25	413
1902	24	24	15	179	140	25	417
1903	23	24	16	183	142	29	428
1904	23	24	19	187	142	29	435
1905	24	24	22	191	144	32	*451

* Four unassigned teachers are included in the total for 1905.

Attendance at All the Day Schools.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1901	16,065	14,144	13,021	92.1
1902	16,341	14,244	13,215	92.8
1903	16,394	14,397	13,250	92.0
1904	16,257	14.454	13,361	92.4
1905	16,381	14,606	13,550	92.8

Attendance at the Latin School.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1901	490	468	449	96.1
1902	488	465	441	95.1
1903	501	474	451	94.9
1904	516	487	465	95.5
1905	564	531	506	95.2

Attendance at the English High School.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1901	613	517	490	94.8
1902	577	498	464	93.1
1903	583	493	470	95.3
1904	605	556	530	95.4
1905	595	550	525	95.5

Attendance at the Manual Training School.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1901	217	191	184	96.2
1902	254	242	229	94.4
1903	300	262	251	95.9
1904	351	315	302	95.9
1905	426	396	377	95.1

Attendance at the Grammar Schools.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1901	7,044	6,483	6,079	93.8
1902	7,359	6,711	6,316	94.1
1903	7,279	6,725	6,306	93.8
1904	7,322	6,701	6,316	94.3
1905	7,457	6,713	6,331	94.3

Attendance at the Primary Schools.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1901	6,815	5,840	5,310	90.9
1902	6,687	5,708	5,249	92.0
1903	6,711	5,755	5,227	90.8
1904	6,534	5,705	5,194	91.0
1905	6,359	5,629	5,173	91.9

Attendance at the Kindergartens.

Year	Number of Pupils Registered	Average Number Belonging	Average Daily Attendance	Per cent of Attendance
1901	886	645	509	78.9
1902	976	620	516	83.2
1903	1,020	688	545	79.2
1904	929	690	554	80.2
1905	980	787	638	81.1

Number of Pupils Admitted to the Lowest Grade of the Latin School.

Course, 5 years.

Year	Boys	Average Age	Girls	Average Age
1901	57	14 years 6 months	58	14 years 2 months
1902	60	14 years 5 months	88	14 years 4 months
1903	65	14 years 4 months	80	14 years 5 months
1904	67	14 years 5 months	91	14 years 7 months
1905	61	14 years 6 months	92	14 years 8 months

Number of Pupils Graduated from the Latin School.

Course, 5 years.

Year	Boys	Average Age	Girls	Average Age
1901	22	18 years 7 months	34	19 years 0 months
1902	23	19 years 1 month	39	18 years 9 months
1903	18	18 years 4 months	31	18 years 10 months
1904	19	18 years 1 month	31	18 years 9 months
1905	40	18 years 11 months	30	18 years 7 months

Number of Pupils Admitted to the Lowest Grade of the English High School.

Year	Boys	Average Age	Girls	Average Age
1901	46	14 years 11 months	145	15 years 0 months
1902	41	14 years 8 months	155	15 years 1 month
1903	58	14 years 8 months	192	15 years 0 months
1904	24	14 years 5 months	186	15 years 0 months
1905	10	14 years 6 months	209	14 years 6 months

Number of Pupils Graduated from the English High School.

Year	Boys	Average Age	Girls	Average Age
1901	13	18 years 3 months	47	18 years 9 months
1902	25	18 years 7 months	61	18 years 9 months
1903	15	18 years 8 months	58	18 years 7 months
1904	12	18 years 7 months	64	18 years 9 months
1905	13	18 years 10 months	61	18 years 9 months

NUMBER OF PUPILS ADMITTED TO THE LOWEST GRADE OF THE MANUAL TRAINING SCHOOL, WITH THE NUMBER OF GRADUATES.

Year	Admitted	Average Age	Graduated	Average Age
1901	110	15 years 2 months	21	18 years 3 months
1902	127	15 years 2 months	23	19 years 2 months
1903	144	15 years 2 months	38	18 years 7 months
1904	194	15 years 0 months	30	18 years 3 months
1905	199	15 years 0 months	32	18 years 7 months

NUMBER OF PUPILS GRADUATED FROM THE GRAMMAR AND PRIMARY SCHOOLS.

Year	Grammar Schools. Course, 6 yrs.	Average Age	Primary Schools. Course, 3 yrs.	Average Age.
1901	565	14 years 11 months	1,467	9 years 7 months
1902	643	14 years 11 months	1,460	9 years 6 months
1903	648	14 years 9 months	1,428	9 years 5 months
1904	708	14 years 10 months	1,444	9 years 6 months
1905	720	14 years 10 months	1,427	9 years 6 months

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE GRAMMAR SCHOOLS

Year	In 4 years	In 5 years	In 6 years	In 7 years or more
1901	6 per cent	28 per cent	50 per cent	16 per cent
1902	7 per cent	27 per cent	51 per cent	15 per cent
1903	6 per cent	26 per cent	53 per cent	15 per cent
1904	5 per cent	28 per cent	52 per cent	15 per cent
1905	6 per cent	28 per cent	53 per cent	13 per cent

LENGTH OF TIME IN COMPLETING THE COURSE OF STUDY IN THE PRIMARY SCHOOLS.

Year	In 2 years	In 2½ years	In 3 years	In 3½ years	In 4 years	In 4½ years or more
1901	3 per cent	1 per cent	61 per cent	5 per cent	20 per cent	10 per cent
1902	3 per cent	2 per cent	62 per cent	4 per cent	20 per cent	9 per cent
1903	3 per cent	2 per cent	60 per cent	5 per cent	22 per cent	8 per cent
1904	3 per cent	3 per cent	54 per cent	6 per cent	24 per cent	10 per cent
1905	2 per cent	1 per cent	60 per cent	6 per cent	21 per cent	10 per cent

NUMBER OF PUPILS IN THE LATIN SCHOOL, DECEMBER, 1905.

Grade	Boys	Girls	Total	Per cent
Fourteenth	34	33	67	.120
Thirteenth	35	50	85	.153
Twelfth	51	68	119	.215
Eleventh	45	80	125	.225
Tenth	64	96	160	.287
Total	229	327	556	

NUMBER OF PUPILS IN THE ENGLISH HIGH SCHOOL, DECEMBER, 1905.

Grade	Boys	Girls	Total	Per cent
Thirteenth	9	72	81	.138
Twelfth	26	121	147	.250
Eleventh	18	129	147	.250
Tenth	9	196	205	.349
Specials	1	7	8	.013
Total	63	525	588	

NUMBER OF PUPILS IN THE MANUAL TRAINING SCHOOL, DECEMBER, 1905.

Grade	Boys		Per cent
Thirteenth	67	This school is for boys	.146
Twelfth	72	only. It became a part	.157
Eleventh	136	of the public school sys-	.296
Tenth	184	tem, January 1, 1899.	.401
Total	459		

NUMBER OF PUPILS IN THE GRAMMAR SCHOOLS, DECEMBER, 1905.

Grade	Boys	Girls	Total	Per cent
Ninth	272	384	656	.093
D	64	49	113	.016
Eighth	374	466	840	.119
C	92	92	184	.026
Seventh	472	525	997	.141
Sixth	541	584	1,125	.159
B	112	130	242	.034
Fifth	663	630	1,293	.183
A	146	145	291	.041
Fourth	708	624	1,332	.188
Total	3,444	3,629	7,073	

NUMBER OF PUPILS IN THE PRIMARY SCHOOLS, DECEMBER, 1905.

Grade	Boys	Girls	Total	Per cent
Third	996	814	1,810	.309
Second	894	867	1,761	.301
First	1,247	1,036	2,283	.390
Total	3,137	2,717	5,854	

NUMBER OF PUPILS AND TEACHERS IN THE KINDERGARTENS.

Year	Boys	Girls	Total	Number of Teachers
1903	383	381	764	29
1904	378	364	742	29
1905	415	419	834	32

NUMBER OF PUPILS BELONGING TO THE EVENING DRAWING SCHOOLS, WITH THE AVERAGE ATTENDANCE.

1900	1901	1902	1903	1904	1905
184	193	220	187	167	188
99	97	114	98	102	115

NUMBER OF PUPILS BELONGING TO THE EVENING HIGH AND ELEMENTARY SCHOOLS, WITH THE AVERAGE ATTENDANCE.

1900	1901	1902	1903	1904	1905
1,248	1,286	1,367	1,664	1,795	2,306
420	464	510	625	720	893

NUMBER OF PUPILS IN THE PRIVATE SCHOOLS IN CAMBRIDGE, INCLUDING THOSE IN THE PAROCHIAL SCHOOLS.

1900	1901	1902	1903	1904	1905
3,004	3,439	3,451	3,711	4,047	4,100

NUMBER OF AGE AND SCHOOLING CERTIFICATES ISSUED.

1900	1901	1902	1903	1904	1905
380	387	507 *354	565 *655	578 *859	666 *749

* Issued to minors over sixteen years of age, in accordance with the law of 1902.

COMPARATIVE STATISTICS OF THE SCHOOLS.

1845	1895	1905
	POPULATION OF CAMBRIDGE.	
12,490	81,634	97,434
	VALUATION OF CAMBRIDGE.	
$8,600,336	$80,911,060	$103,845,600
	NUMBER OF CHILDREN IN THE CITY BETWEEN FIVE AND FIFTEEN YEARS OF AGE.	
2,858	12,869	15,858
	NUMBER OF PUPILS IN THE SCHOOLS IN DECEMBER.	
2,151	12,174	15,364
	NUMBER OF TEACHERS IN DECEMBER.	
37	322	451
	COST OF THE DAY SCHOOLS.	
$14,358	$299,085	$462,412
	COST PER PUPIL.	
$6.67	$26.00	$31.66

NUMBER OF PUPILS IN THE SCHOOLS BY GRADES.

	1895	1905
High Schools	1,062	1,603
Grammar Schools	5,608	7,073
Primary Schools	5,087	5,854
Kindergartens	417	834
	12,174	15,364

Cost of Instruction in the Day Schools.

[Salaries of teachers, superintendent, supervisor, agent, clerks, and truant officers.]

Year	Number of Teachers in December	Average Number of Pupils	Whole Cost	Cost per Pupil
1876	176	7,066	$164,818 00	$23 32
1880	182	7,175	130,371 75	18 17
1884	216	8,414	152,290 62	18 09
1888	241	9,756	175,773 80	18 02
1892	284	10,861	207,144 22	19 07
1896	337	11,957	245,104 01	20 50
1898	364	12,907	268,182 97	20 78
1900	409	13,816	326,512 34	23 63
1901	413	14,144	336,149 80	23 77
1902	417	14,244	343,787 00	24 14
1903	428	14,397	349,179 80	24 25
1904	435	14,454	356,406 89	24 66
1905	*451	14,606	366,448 39	25 09

Cost of the Day Schools.

[This includes the cost of instruction, of text-books and supplies, of incidental expenses, of the care of truants, of the care and †repair of schoolhouses, and of the transportation of pupils.]

Year	Number of Teachers in December	Average Number of Pupils	Whole Cost	Cost per Pupil
1876	176	7,066	$200,894 09	$28 43
1880	182	7,175	153,967 56	21 45
1884	216	8,414	203,234 56	24 15
1888	241	9,756	225,408 57	23 10
1892	284	10,861	266,651 02	24 55
1896	337	11,957	316,090 83	26 44
1898	364	12,907	345,566 30	26 77
1900	409	13,816	417,554 00	30 22
1901	413	14,144	429,208 22	30 35
1902	417	14,244	427,356 71	30 00
1903	428	14,397	429,554 39	29 84
1904	435	14,454	450,310 44	31 15
1905	*451	14,606	462,412 09	31 66

Cost of Instruction in the Evening Schools.

Year	Elementary	High	Drawing	Total
1901	$2,777 50	$1,551 75	$1,205 00	$5,534 25
1902	3,218 50	1,682 75	1,298 00	6,199 25
1903	5,000 50	1,683 00	1,428 00	8,111 50
1904	5,708 00	1,577 50	1,343 00	8,628 50
1905	6,436 00	1,889 00	1,491 00	9,816 00

* Four unassigned teachers are included.

† In accordance with the statutory definition of the support of public schools, the cost of the repair of schoolhouses has not been included in the cost of the schools since 1902 and will not be in the future.

Finances.

(For the financial year ending December 1, 1905.)

Cost of instruction in day schools	$366,448 39
Cost of instruction in evening schools	9,816 00
Cost of care of buildings, day schools	70,376 51
Cost of care of buildings, evening schools	2,255 12
Cost of text-books and supplies, day schools	21,672 82
Cost of text-books and supplies, evening schools	436 51
Expended for care of truants	1,888 26
Expended for flags	71 95
Expended for incidentals	1,586 16
Expended for transportation of pupils	368 00
Expended on vacation schools	1,679 64
Expended on Rindge Manual Training schoolhouse, alterations	12,915 70
Expended on Rindge Manual Training schoolhouse, equipment	6,635 31
Expended on Houghton schoolhouse	87,815 26
Expended on Kelley schoolhouse	88 92
Expended on addition to Roberts schoolhouse	20,857 49
Expended for new furniture	1,107 94
Expended for repairs to buildings, etc.	15,190 42
	$621,200 40
Deducting from the above the amount received for the tuition of State and Boston City Wards, $864.50, the tuition of non-resident pupils, $5,601.50, the amount received from the sales and damages of books, $594.96, and sale of old material, $271.05	$7,332 01
The actual cost of the schools to the city is	$613,868 39
Assessed value of real and personal estates, May, 1905	$103,845,600 00
Ratio of expenditure for school purposes to the valuation of 1905	.0059

TABULAR VIEW.

DECEMBER 31, 1905.

Prepared by the Secretary of the School Committee.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1905
Latin	William F. Bradbury	$3,000	556
	*John I. Phinney	2,000	
	Max Benshimol	1,900	
	Cecil T. Derry	950	
	Alfred R. Wightman	1,400	
	Helen M. Albee	950	
	*Constance Alexander	950	
	Mary A. Bachelder	950	
	Alice C. Baldwin	950	
	Almira W. Bates	800	
	Margaret S. Bradbury	800	
	Isabel S. Burton	950	
	Alice C. Chamberlain	850	
	Margaret C. Cotter	500	
	Grace C. Davenport	750	
	Etta L. Davis	900	
	Caroline Drew	950	
	Nellie C. Fawcett	750	
	Elizabeth B. Flanders	750	
	Margaret J. Griffith	750	
	Mary C. Hardy	950	
	*Rose Hardwick	950	
	Mabel E Harris	950	
	Louisa P Parker	950	
	Lena G. Perrigo	950	
	Ethel V Sampson	900	
	Jennie S. Spring	950	
	†Annie S. Dodge	600	
English High	Ray Greene Huling	3,000	588
	Francis L. Bain	1,100	
	Joseph A. Coolidge	1,800	
	Chester M. Grover	1,500	
	Grace L. Deering	1,200	
	Caroline Close	950	
	Bertha L. Cogswell	950	
	Gertrude H. Crook	950	
	Mary L Cunningham	850	
	Esther S. Dodge	950	
	Agnes B Goerwitz	950	
	Ellen P. Huling	700	
	Elizabeth L. Huling	700	
	Katherine H. James	850	
	Jeannie B. Kenrick	900	
	Maud A. Lawson	950	
	Henrietta E. McIntire	950	
	Mary Moulton	950	
	Lillian C. Rogers	950	
	Caroline A. Sawyer	950	

* On leave of absence in accordance with Section 69 of the Rules of the School Committee.
† Secretary and Librarian.

Tabular View—Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1905
English High, Continued..	Florence W. Smith.....	$950	
	Martha R. Smith.....	950	
	Delia M. Stickney.....	1,200	
	Annie F. Stratton.....	900	
	*Martha L. Babbitt.....	600	
Rindge Manual Training ..	Charles H. Morse.....	3,000	459
	Myra I. Ellis	1,300	
	Helen W. Metcalf.....	950	
	Arthur E. Brown...	1,000	
	James F. Conlin.....	1,000	
	John E. Denham.....	1,000	
	Adolph C. Ely	1,200	
	Richard H. Gallagher.....	1,300	
	Frederick G Getchell	1,200	
	Evan W. Griffiths.....	1,100	
	Lewis D. Hill.....	1,600	
	William O. Hubbard.....	900	
	James E. MacWhinnie.....	1,250	
	Edward R. Markham.....	1,500	
	Joseph M. Norton.....	1,100	
	Harry E. Rich	950	
	Charles H. Richert.....	800	
	Walter M. Smith.....	1,200	
	Charles E. Stratton.....	1,000	
	James G. Telfer.....	1,500	
	Albert L. Ware.....	1,400	
	John W. Wood, Jr.....	1,600	
	*Myrta E Smith.....	600	
Agassiz, Grammar	Maria L. Baldwin.....	1,000	139
Agassiz, Primary	Edith C. Arey.....	700	124
	Addie B. Byam	700	
	Frances W. Dawson	700	
	Lillian G. Goodwin.....	700	
	†Mary A. Parsons.....	700	
	Grace C. Stedman.....	700	
	Abby S. Taylor.....	500	
	Agnes L. Tracy.....	650	
Boardman, Primary.....	Elizabeth J Karcher.....	790	369
	Mabel E. Blake	700	
	Nellie B. Blodgett.....	650	
	Lillian M. Cuddy.....	500	
	Blanche M. Gould.....	500	
	Malvina M. Joslin.....	700	
	Jennie B. Ross.	550	
	Lucy A. Witham.....	700	
Cushing, Primary	Maude A. Deehan.....	760	77
	Margaret E. Sheehan.....	650	
Ellis, Grammar.....	Edward O. Grover.....	2,000	546
	Nellie A. Hutchins.....	900	

* Secretary and Librarian.
† On leave of absence in accordance with Section 69 of the Rules of the School Committee.

TABULAR VIEW — Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1905
Ellis, Continued	Caroline L. Blake	$800	
	Adelaide G. Bunker	750	
	Emma A. Faulkner	700	
	Harriet Foster	700	
	Lottie L. Griswold	700	
	Louise H. Griswold	700	
	Ellen J. Hunt	700	
	Flora C. Ingraham	700	
	Ida J. Mahoney	550	
	Sarah W. Mendell	700	
	Mary A. Stephenson	700	
	Josephine C. Wyman	700	
Felton, Primary	C. Florence Smith	770	154
	Marcia R. Bowman	700	
	S. Emma Davis	700	
	Carrie H. Smith	700	
Fletcher, Grammar	George B. Colesworthy	1,500	256
Fletcher, Primary	Frances E. Higgins	750	395
	Gertrude M. Baker	500	
	Mary I. Chapin	700	
	Ellen A. Cheney	700	
	Mary A. Doran	700	
	Mary N. Flewelling	500	
	Katherine A. Gaskill	700	
	Mary Godsell	500	
	Elmira F. Hall	700	
	Martha B. Perkins	650	
	Marion Prescott	700	
	Susan L. Senter	700	
	Eva A. Taylor	700	
	Gertrude M. Webster	500	
	Emma G. Wentworth	600	
Gannett, Primary	Mary A. Rady	775	146
	Annie M. Billings	700	
	Margaret F. Sanderson	700	
	Gertrude T. Sullivan	650	
Gore, Primary	Frances E. Pendexter	810	461
	Charlotte A. Callahan	700	
	Katherine L. Dolan	700	
	Mary L. Donovan	500	
	Minnie A. Doran	700	
	Kate A. Hegarty	700	
	Katherine L. McElroy	700	
	Julia G. McHugh	700	
	Olive I. McNulty	450	
	Mary E. Mulloney	700	
	Anastasia Peters	700	
	Nora E. Reardon	700	
Harvard, Grammar	Thomas W. Davis	2,000	756
	Ernest T. Cushman	1,000	
	Margaret B. Wellington	900	

TABULAR VIEW—Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1905
Harvard, Continued.....	Nellie A. Coburn.....	$800	
	Annie M. Street	750	
	Addie L. Bartlett.	700	
	Winifred B. Cobb.....	700	
	M. Blanche Craig	450	
	Frances Fabyan.....	700	
	Margaret M. Fearns.....	700	
	Estella J. French.....	700	
	Annie B. Lowell.....	700	
	Josephine MacDonald.....	700	
	Waitie M. Nash.....	700	
	Laura M. Parmenter	700	
	Louise C. Patterson.....	700	
	Elizabeth L. Setchell.....	700	
	Hortense O. Young	700	
Holmes, Primary.....	Susan E. Wyeth	765	96
	Catherine M. Doran.....	500	
	Agnes S. White.....	700	
Houghton, Grammar....	John W. Freese.....	2,000	456
Houghton, Primary.....	Blanche E. Townsend.....	900	100
	Alice P. Fay.....	750	
	Grace D. Beckwith.....	650	
	Katherine F. Callahan.....	600	
	Eldora J. Clark.....	700	
	Mary L. Ells.....	700	
	Katharine M. Greene	500	
	Winifred L. Kinsley.....	700	
	Emma Penney.....	700	
	Margaret J. Penney.....	700	
	Bessie H. Pike.....	700	
	Anna G. Scannell	500	
	Hattie Shepherd.....	700	
	Mary S. Snow	450	
Kelley, Grammar	Everett L. Getchell.....	2,000	314
Kelley, Primary	H. Warren Foss	1,100	318
	Ellen A. Kidder.....	750	
	Olive L. Cook.....	550	
	Josephine Day.....	700	
	Maude M. Dutton.....	700	
	Lucy M. Fletcher	700	
	Carrie M Ford	550	
	Jennie C. Hardy.....	700	
	Emma J. Houlahan	650	
	Catharine A McLean.....	700	
	Mary E. Moran.....	500	
	Ethel I. Murch.....	700	
	Eva G Oakes	700	
	Esther D. Paul.....	700	
	Carrie L. Power.....	700	
	Mary E. Regan	700	
Lassell, Primary.....	Frances E. Whoriskey.....	770	169
	Rose V. Collier.....	700	

TABULAR VIEW—Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1905
Lassell, Continued	Elizabeth B Gahm	$700	
	Mary E. Whoriskey	700	
Lowell, Primary	Eusebia E Minard	775	81
	Agnes J McElroy	700	
	Cora B. Poole	500	
Merrill, Primary	Louise W. Harris	785	267
	Julia M. Davis	700	
	Henriette E de Rochemont	700	
	Daisy E. Haynes	700	
	Marion B. Magwire	700	
	Gertrude S. Thayer	550	
	Nellie F. Walker	700	
Morse, Grammar	Mary A. Townsend	2,000	421
Morse, Primary	Mary E. Towle	900	216
	Marcia E. Ridlon	800	
	Ida J. Holmes	750	
	Elizabeth J. Baldwin	700	
	Edith M. Carman	500	
	Christina R. Denyven	700	
	Ida M. Holden	700	
	Florence E. Hunter	700	
	Alice E. May	700	
	Helen Montague	700	
	Anna A. O'Connell	700	
	Ella N. Pinkham	700	
	Elizabeth H. Richards	700	
	Lucy M. Soulée	700	
	Bertha J. Waldron	600	
	Mary E Warren	700	
	Constance E. Yeames	450	
Otis, Primary	Ellen N. Leighton	785	297
	Frances Allen	700	
	Anna E. Callahan	700	
	Josephine M. Doherty	700	
	Luella M. Marsh	700	
	Anna N Sullivan	650	
	Margaret Sullivan	700	
	Ellen C. Walsh	700	
Parker, Primary	Mary A. Knowles	780	249
	Mattie S. Cutting	700	
	Harriet R. Harrington	700	
	Agnes Marchant	700	
	Mary E. Mullins	550	
	Mary E. White	600	
Peabody, Grammar	Frederick S Cutter	2,000	379
Peabody, Primary	Charlotte A. Ewell	900	153
	Mabel R. Coombs	800	
	Anna F. Bellows	700	
	Susan C. Allison	700	
	Katherine L Carr	700	

Tabular View—Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1905
Peabody, Continued	Grace LeBaron Esty	$650	
	Ruth D. Foxcroft	550	
	Helen E Hazard	700	
	Martha A. Parker	700	
	Bertha L Stratton	550	
	Isadore M Thompson	550	
	Dora Trefethen	700	
	Alice M. Tufts	700	
Putnam, Grammar	Frederick B. Thompson	2,000	629
	James E. White	1,200	
	Maude M. Mixer	800	
	Eliza S. Paddack	800	
	Grace Clark	750	
	Mary A. Carmichael	700	
	Anna L. P. Collins	700	
	Sarah M. Grieves	700	
	Hattie E. Jewell	700	
	Annie B. Josselyn	700	
	Nellie A. Kerrigan	550	
	Mary A. Macklin	600	
	Katharine I Nicolson	700	
	Margaret F. O'Keefe	700	
	Annie A Trelegan	700	
	Minnie F. Wilson	700	
Reed, Primary	Margaret T. Burke	770	170
	Elizabeth G. Nelligan	700	
	Julia A. Robinson	700	
	Clara W. Ruggli	700	
Riverside, Primary	Elizabeth A. Tower	770	159
	Amanda M. Alger	700	
	Mary A. Burke	700	
	Hattie A. Thayer	600	
Roberts, Grammar	W. Mortimer MacVicar	2,000	655
	Sara A. Bailey	900	
	Emily R Pitkin	750	
	Susan M. Adams	700	
	Clara A. Ball	600	
	Beatrice Bennett	500	
	Mary Blair	700	
	Elizabeth M. Breslin	650	
	Mary M. Brigham	700	
	Faith Foxcroft	500	
	Mary F. Hill	500	
	Susan L. Keniston	700	
	Evelyn B. Kenney	700	
	Ada M. Litchfield	700	
	Clara E Phinney	600	
	Ida G. Smith	700	
	Caroline M. Williams	700	
Russell, Grammar	Arthur C. Wadsworth	2,000	374
Russell, Primary	Mary S. Bingham	900	118

TABULAR VIEW—Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1905
Russell, Continued	Carrie J. Allison	$700	
	Fannie P Browning	700	
	Ella E. Buttrick	700	
	Mary A. Connelly	700	
	Louise F. James	500	
	Anna M. Lyons	600	
	Louise I. MacWhinnie	550	
	H. Maud McLean	700	
	Alice B. Moore	550	
	Gertrude E. Russell	700	
Shepard, Grammar	Evelyn J. Locke	1,000	222
Shepard, Primary	Mary F. Calnane	700	128
	Florence M Dudley	700	
	Alice M. Gage	700	
	Mary M. Gilman	700	
	Theresa H. Mahoney	700	
	Ellen O'Keefe	650	
	Elizabeth J. O'Keefe	500	
	Anna E. Welch	550	
Sleeper, Grammar	A Estelle Ingraham	1,000	136
Sleeper, Primary	Emily Bissell	700	178
	Butella E L. Conland	700	
	Evelyn M. Dormer	700	
	Elizabeth O Haynes	700	
	Melissa M. Lloyd	700	
	Margaret E Quinn	650	
	Blanche E. Trefethen	700	
Tarbell, Primary	Emma J. Young	770	173
	Florence J. Alley	700	
	Carrie P. Pierce	700	
	Anna H Welsh	650	
Taylor, Grammar	Ella R. Avery	1,000	108
Taylor, Primary	Mary A. Boland	700	262
	Bridget T. Boyle	700	
	Lillian M Canty	700	
	Lillian W. Davis	600	
	Emily M. Dowd	450	
	Winifred B. Goodwillie	450	
	Cecelia F. Leahy	700	
	Mary A Maguire	550	
	Eleanor M Stevens	600	
Thorndike, Grammar	Ruel H. Fletcher	2,000	528
	Harriet A. Townsend	900	
	Laura A. Westcott	750	
	Flora E Cooter	600	
	Jennie W. Cronin	600	
	Grace W. Fletcher	700	
	Faith Garland	450	
	Eulalia L. Herald	700	
	Lillian Keaney	450	
	Lillian H. Kenney	650	

Tabular View—Continued.

Names of Schools	Teachers	Salaries	No. of Pupils Dec. 31, 1905
Thorndike, Continued....	Edith M. O'Brien.....	$500	
	Ellen M. Plympton	700	
	Mabel A. Short.....	650	
	Lydia A. Whitcher.....	700	
Webster, Grammar	John D. Billings.....	2,000	688
	H. Herbert Richardson	1,100	
	Alice C. Phinney..	900	
	Martha N. Hanson.....	800	
	Ada A. Billings	750	
	Mabel T. Ashley.....	700	
	Blanche M. Brickett.....	600	
	Charlotte M. Chase.....	700	
	Fanny F. Curtis	700	
	Susan I. Downs	700	
	Gertrude B. Duffy..	700	
	Josephine Hills.....	700	
	Gertrude I. Johnson	700	
	Minnie V. Reid.....	700	
	Harriette E Shepard	700	
	Olive L. Slater.....	700	
	Maud A. Sumner	700	
	Katherine L Wight	700	
Wellington, Grammar ...	Herbert H. Bates	2,500	466
Wellington, Primary	Sarah J. Gunnison	1,000	282
	Margaret Kidd	1,000	
	Mary I. Vinton.....	1,000	
	Carrie H. Stevens.....	900	
	Grace F. Chamberlain.....	700	
	*Ellen A. Sullivan.....	500	
	Training Class	7,291	
Willard, Primary	Katharine E. Hayes.....	810	514
	Agelena Aldrich	600	
	Elizabeth M. Crowley	650	
	Mary L. Dolan	700	
	Ella F. Gulliver.....	700	
	Julia S. Gushee.....	700	
	Mary E G. Harrington.....	700	
	Katherine M. Lowell	700	
	Mary A O'Hara.....	700	
	Annie M. Sands.....	450	
	Eliza D. Watson.....	700	
	Grace R. Woodward	700	
Wyman, Primary	Addie M. Bettinson.....	780	198
	Maria J. Bacon	700	
	Mary H. Brooks	700	
	Georgianna P. Dutcher.....	700	
	Genevieve S. Flint.	700	

* Clerk and Librarian

Tabular View — Concluded.

Names of Schools		Teachers	Salaries	No. of Pupils Dec. 31, 1905
Kindergartens	Boardman	*Mary B. Pratt	$700	51
		Florence Rice	650	
		Agnes M. Quinn	250	
	Corlett	Annie M. Dodd	650	44
		Frances W. Roberts	450	
	Gannett	Carrie E. Shepherd	700	47
		Marion L. Akerman	600	
	Gore	Selma E. Berthold	700	54
		Ethel M. Halliday	250	
	Houghton	Edith L. Lesley	700	57
		Olive M Lesley	600	
	Lowell	Melinda Gates	700	40
		Annie L. Crane	550	
	Merrill	Caroline A. Leighton	700	60
		Gretchen K. Hagar	600	
	Parker	Leonice S Morse	700	46
		Ida E. Ward	450	
	Peabody	Julia L. Frame	700	52
		Irene L Phelps	500	
	Shaw	Harriette E Ryan	700	70
		Gertrude M. Simpson	450	
	Sleeper	Mabel S. Adams	700	53
		Caroline E. Simpson	600	
	Taylor	Mary F. Leland	700	56
		Anna D. Francis	450	
	Wellington	Gertrude M. Gove	700	56
		Mary E. Valpey	250	
	Willard, A. M.	Alice V. McIntire	700	53
		Lucy E. Whipple	500	
	Willard, P. M.	Jennie S. Clough	700	48
		Eva C. Katon	550	
	Wyman	Clara A. Hall	700	47
		Della E. Cabot	600	
Teachers of Sewing		Agnes Gordon	700	
		Alice H Nay	600	
		Nancy T. Dawe	600	
Permanent Substitute		Mary A. Driscoll	500	
Unassigned Teachers.				
High School		Emma A. Scudder	450	
Primary Schools		Sally N. Chamberlain	350	
		M. Elizabeth Evans	350	
		Mary E. Sawyer	350	

* On leave of absence in accordance with Section 69 of the Rules of the School Committee.

Director of Music — Frederick E. Chapman	$2,000
Assistant in Music — Georgia E. Martin	850
Director of Drawing — Peter Roos	2,000
Assistant in Drawing — Lucia N. Jennison	800
Director of Nature Study — Sarah A. Brassill	1,000

Director of Physical Training — Sara E. Boudren	950
Instructor in Physical Training in the High Schools — Bessie W. Howard	850
Superintendent * — William C. Bates	3,500
Supervisor of Primary Schools — Mary A. Lewis	1,300
Agent — Sanford B. Hubbard	2,100
Clerks — Althea B. Frost	780
Sadie E. Kimball	600
Porter — John Lemon	700
Truant Officers — Lucian S. Cabot	1,000
John Carmichael	1,000
William H. Porter	1,000
Thomas F. Riley	1,000

* Francis Cogswell until September.

Summary.

Number of pupils in the Latin School	556
Number of pupils in the English High School	588
Number of pupils in the Rindge Manual Training School	459
Number of pupils in the Grammar Schools	7,073
Number of pupils in the Primary Schools	5,854
Number of pupils in the Kindergartens	834
Total	15,364
Number of pupils belonging to the public schools December 31, 1904	15,075
Increase of pupils, 1905	289
Increase of pupils, 1904	140
Increase of pupils, 1903	188
Increase of pupils, 1902	253
Increase of pupils, 1901	62
Increase of pupils, 1900	332
Increase of pupils, 1899	314
Increase of pupils, 1898	476
Increase of pupils, 1897	422
Increase of pupils, 1896	714
Average annual increase of pupils from 1896 to 1905 (inclusive)	319

Cost of Instruction.

Schools and Officers	Cost of Instruction	Average Number of Pupils	Cost per Pupil
Latin School	$26,711 51	531	$50 30
English High School	26,359 41	550	47 93
Rindge Manual Training School	26,487 00	396	66 89
Training School (Teachers)	14,796 39	701	21 11
Grammar Schools (except Training School)	133,558 75	6,279	21 27
Primary Schools (except Training School)	92,696 70	5,362	17 29
Kindergartens	19,371 96	787	24 61
Teachers of Sewing	1,889 75	....	....
Directors of Music	2,850 00	....	....
Directors of Drawing	2,778 67	....	....
Director of Nature Study	1,000 00	....	....
Directors of Physical Training	1,761 00	....	....
Substitute Teachers	2,728 25	....	....
Superintendent	3,500 00	....	....
Supervisor of Primary Schools	1,300 00	....	....
Agent	2,100 00	....	....
Clerks	1,359 00	....	....
Truant Officers	4,000 00	....	....
Porter	630 00	....	....
Ungraded School	120 00	....	....
Unassigned Teachers	450 00	....	....
Total	$366,448 39	14,606	$25 09

Cost of instruction in Evening High Schools	$1,889 00
Cost of instruction in Evening Elementary Schools	6,436 00
Cost of instruction in Evening Drawing Schools	*1,491 00
Total	$9,816 00

*The Director of Drawing is principal of these schools. No part of his salary has been included in this amount.

REMARKS ON THE STATISTICS.

The number of pupils registered in the day schools during the year ending June, 1905, was 16,381; the average number belonging was 14,606, and the average daily attendance was 13,550. In the per cent of attendance there has been an increase of four-tenths of one per cent. The number belonging to the schools in December, 1904, was 15,075; in December, 1905, 15,364, an increase of 289.

The cost of instruction, which includes the salaries of teachers, superintendent, supervisor, agent, clerks and truant officers, was $366,448.39. The total cost of the day schools, which, in accordance with the statutory definition of the support of schools, includes the cost of instruction, text-books and supplies, incidental expenses, care of truants, care of school-houses, and the transportation of pupils, was $462,412.09.

The average attendance at the evening schools during the school year 1904–1905 was 1,008, an increase of 186, and the number of teachers, including the principals, was 77. The total cost of these schools, which includes the salaries of teachers, the cost of text-books and supplies, fuel, light, and the salaries of janitors, was $12,497.63.

In December, 1895, the number of pupils in the day schools was 12,174; in December, 1905, the number was 15,364, an increase of 3,190 pupils in ten years. In the high schools there has been an increase of 541 pupils; in the grammar schools, 1,465; in the primary schools, 767, and in the kindergartens, 417. In 1895 there were 8 kindergartens, 16 teachers, and 417 pupils. We now have 16 kindergartens, 32 teachers, and 834 pupils. It will be noticed that the number of kindergartens, the number of teachers and the number of pupils in the kindergartens have all exactly doubled in ten years.

While Cambridge expends a large amount for her schools, there are *two hundred and twenty-eight* towns and cities in the State which make a larger expenditure in proportion to their wealth. In a list of the thirty-three cities, arranged numerically according to the percentage of their taxable property appropriated to the support of public schools for the year 1904–1905, Cambridge is the *twenty-fourth*. In a list of the towns and cities of the State, arranged numerically according to the sum appropriated for each child in the average membership of the public schools, Cambridge is the *twenty-ninth*.

These statistics relating to the schools of the State are taken from the sixty-ninth annual report of the secretary of the State Board of Education.

TEXT-BOOKS AND SUPPLIES.

At a meeting of the Board in December the committee on supplies submitted a detailed report of the expenditures of that committee for the year. The report is as follows: —

In accordance with Section 30 of the Rules of the School Board, the committee on supplies submits its twenty-first annual report, it being for the year ending July 1, 1905: —

Stock on hand July 1, 1904	$6,638 27	
Purchases and expenditures to July 1, 1905	23,211 35	
		$29,849 62
Cash sales and damages	$619 96	
Delivered to schools, officers, etc.	22,020 37	
		22,640 33
Stock on hand July 1, 1905		$7,209 29

The purchases and expenditures have been: —

For text-books	$9,029 14	
Desk and reference books	136 03	
Copy books	680 56	
Apparatus and furnishings	1,807 92	
Printing, $131.65; expressage and labor, $354.73	486 38	
Repairing books, $460.15; diplomas, $221.01	681 16	
Tuning pianos	47 00	
Miscellaneous supplies, etc.	9,962 20	
		$22,830 39
Less the value of exchanges		700 03
		$22,130 36

The net cost of text-books and supplies is as follows: —

Stock on hand July 1, 1904	$6,638 27	
Bills paid by City Treasurer	22,130 36	
		$28,768 63
Less stock on hand July 1, 1905	$7,209 29	
Cash paid to City Treasurer, sales and damages	619 96	
		7,829 25
We have, net cost of all schools and officers		$20,939 38

or an average cost per pupil of $1.434. The average cost per pupil for twenty-one years has been $1.282.

The annual cost per pupil for text-books and supplies since the introduction of free text-books is as follows: —

Year	Cost per Pupil	Year	Cost per Pupil	Year	Cost per Pupil
1885	$1.880	1892	$1.149	1899	$1.225
1886	1.170	1893	1.109	1900	1.740
1887	1.051	1894	1.243	1901	1.203
1888	1.068	1895	1.152	1902	1.400
1889	0.960	1896	1.436	1903	1.306
1890	1.334	1897	1.094	1904	1.468
1891	1.248	1898	1.268	1905	1.434

The cost of each grade of schools for text-books and supplies is as follows: —

	Net Expense	Cost per Pupil				
		1905	1904	1903	1902	1901
Latin School	$1,689 62	$3.182	$3.177	$3.463	$3 990	$3.935
English High School	1,845 94	3.356	4.153	3.564	3.641	4.236
Manual Training School	3,965 49	10.014	9 836	16.791	11.564	11.707
Training School, Teachers	675 70	.964	1 042	.664	.707	.704
Grammar Schools	5,110 31	1.258	1.397	1.070	1.152	1.068
Mixed Schools	4,729 18	1.153	1.342	.907	1.140	.933
Primary Schools	1,507 65	.433	.441	.379	.528	.431
Kindergartens	501 15	.637	.422	.428	.630	.329
Evening Schools	426 51	.....	.....	.....	.....	.....
Vacation Schools	15 14	.....	.....	.....	.....	.....
Special Teachers	60 60	.....	.....	.....	.....	.....
Officers of Board	45 45	.....	.....	.....	.....	.....
Miscellaneous expenses (not chargeable to any grade)	389 59	.....	.....	.....	.....	.....
	$20,962 33					
Less profit on sales	22 95	.....	.....	.....	.....	.....
	$20,939 38	$1.434	$1.468	$1.306	$1.400	$1.203

A comparison of the foregoing tables with those submitted by your committee last year shows a reduction of $604.27 in the cost of books and materials purchased during the year ending last June. This reduction is caused by the fact that a large part of the geographies and language books were introduced last year, increasing the expenditures of that year above the average, while fewer of these books have been purchased this year.

The decrease is $1,214.49 for text-books, $126.93 for desk and reference books, $8.77 for copy books, $583.65 for apparatus and furnishings, $64.35 for printing, $6.91 for expressage and labor, a total of $2,005.10, while there has been an increase of $72.46 for repairing books, $7.87 for diplomas, $3.25 for tuning pianos, and $1,317.25 for miscellaneous supplies due to the small stock one year ago. The value of the stock on hand is $7,209.29, an increase of $571.02 above last year.

The amount received for old books on exchanges is $700.03, a decrease of $512.83 from last year.

In the several schools, the Latin School shows an increase of $142.35, or $0.005 per pupil, entirely in the cost of text-books, as there is a decrease of $0.473 per pupil in the cost of supplies.

The English High School shows a decrease of $463.21, or $0.797 per pupil. The largest decrease is in text-books, though there is a decrease in all the lines of materials supplied.

The Rindge Manual Training School shows an increase of $867.17, or $0.178 per pupil, which shows that the large aggregate was almost entirely due to the growth of the school.

The grammar and primary schools show a slight decrease per pupil though the aggregate is larger than the preceding year.

During the year pianos have been purchased for the Fletcher School and the Parker and Houghton kindergartens.

The sloyd outfit to replace that burned at the Allston schoolhouse several years ago was not purchased, nor have the Wheeler readers been purchased, though several of the teachers in primary schools desire them very much. The conditions of the appropriations prevented the purchase of several charts, maps and other needed apparatus.

Pianos are needed to replace the one at the Putnam School and that at the Sleeper Kindergarten; and a sloyd outfit is still much needed in the upper part of the city.

During the year a special appropriation of $7,000 was made for more extensive apparatus and incidental alterations at the Rindge Manual Training School, and was expended with the approval of this committee. This expenditure was most necessary and we believe that the increased facilities thus obtained will contribute in an important way to this growing and successful school.

Taking the number of pupils in December, 15,364, and the average cost per pupil for twenty-one years, $1.282, as a basis for estimates for the coming financial year, $19,696 will be needed for the regular supplies, to which should be added an amount necessary to meet any unusual expenditures which the committee shall deem best to make.

The committee desires to express its appreciation of the faithful and valuable services of the agent of the Board, who has shown great care and economy in the purchase and distribution of the school supplies.

CHANGES IN TEXT-BOOKS.

The following is the rule relating to the changes in text-books: — "All propositions for changes in text-books shall be made by the superintendent. Whenever he recommends a change he shall appoint two persons, one of whom shall be a teacher in the service of the city, who shall make written reports on the merits of the books recommended. These reports and a like report by the superintendent shall be kept on file in the office of the superintentent, open to inspection by members of the Board only. All changes of text-books recommended to the Board shall be referred to the committee on text-books."

Under this rule the following changes in text-books have been made during the year : —

Gustav Adolf in Deutschland (1630–1632) from Schiller's History of the Thirty Years' War, Riehl's Das Spielmannskind—Der Stumme Ratsherr, and Smith's Classical Dictionary have been adopted for use in the high schools.

Edwards's Hand-Book of Mythology has been dropped from the list of authorized text-books for the high schools.

SCHOOL ACCOMMODATIONS.

At a meeting of the Board in December, the committee on schoolhouses submitted a detailed report of the work of the committee for the year. The following is taken from that report : —

At the meeting of the Board in March, a request was sent to the city council that four rooms be added to the Roberts schoolhouse to be ready for occupancy the first of September. An appropriation of $20,950 was made for this purpose. The four rooms were added, extensive alterations were made in the hall, the heating and ventilation were much improved and the sanitaries were removed to the basement and entirely renovated. The building was ready for occupancy on the first of October. It now contains sixteen rooms, and is much improved in every respect. To December first there had been expended $20,857.49 on this building.

The Houghton schoolhouse, containing fourteen rooms and a hall, was completed so as to be occupied by the teachers and pupils of the Washington School at the opening of the schools in September. The cost of the building and land to December first was $96,127.01. The city has in this building a fine modern schoolhouse containing many features lacking even in some of our most recent buildings.

In compliance with a request of the school committee adopted in April, the city council appropriated $13,000 for alterations, and $7,000 for additional equipment of the Rindge Manual Training School.

The basement and sanitary arrangements have been thoroughly renovated, lockers have been put into the basement of this and of the Washington building, many alterations and improvements in the buildings have been made, and the addition to the equipment has been installed. The cost of the improvements to December first was $12,915.70 for alterations, and $6,635.31 for equipment.

General repairs have been made on all the schoolhouses as usual, costing in all $11,805.33 for repairs to buildings, $2,179.97 for repairs to heating apparatus, $1,205.12 for repairs to furniture, and $1,107.94 for new furniture, a total of $16,298.36.

The buildings where more than five hundred dollars has been expended are, — Latin School, $2,117.07 for repairs to heating apparatus and furniture, purchase of new furniture, enlarging two rooms, improved ventilation, tinting, etc.; English High, $1,200.91 for repairs to furniture, tinting, basement floors, repairs to boilers, etc.; Putnam, $712.99 for repairs to building and furniture, tinting, etc.; Washington, $699.53 for repairs to building and furniture, plumbing, etc.; Webster, $799.02 for repairs to building and furniture, purchase of new furniture, new floors, and a new furnace; Russell, $725.32 for tinting, repairs to heating apparatus, etc.; Parker, $836.15 for repairs to furniture, purchase of new furniture, changes in sanitaries, ventilation, and plumbing; Rindge Manual Training, $1,086.59 for general repairs to buildings, heating apparatus and furniture, and the purchase of new furniture; Thorndike, $584.91 for repairs to building, furniture and heating apparatus.

The total expenditures, except those made under the special appropriation for new work on school buildings, are: —

Janitors' service	$37,459 55
Janitors' supplies	1,912 20
Fuel	30,920 63
Gas and electric lighting	2,339 25
New furniture	1,107 94
Repairs to buildings	11,805 33
Repairs to furniture	1,205 12
Repairs to heating and plumbing	2,179 97
	$88,929 99

The requests of the committee that an addition to the English High schoolhouse be built and that an appropriation be made for the equipment of the gymnasium at the Latin School have been referred to the appropriate committees of the city council.

This committee has recommended that the old Gannett building near the Wellington School be removed and that an addition to the Wellington schoolhouse be built to accommodate the pupils now in the old building.

The watch and fire alarm boxes have been placed in the high school buildings in accordance with a vote of the Board in May, but the service is not yet in operation.

JANITORS.

Section 31 of the city charter provides that "The mayor shall appoint the janitors of schoolhouses, subject to confirmation by the school committee, and may remove them at pleasure for cause assigned; and such janitors shall perform their duties under the direction of the school committee."

Under the direction of the committee on schoolhouses, the agent supervises and directs the work of the janitors, and reports to the commit-

tee such matters as seem to need consideration. The principals of the schools report each month whether or not the work is done in a satisfactory manner.

The following is from the report of the committee on schoolhouses: —

Under the efficient direction of Mr. John Roach, the head janitor, the janitor service in our schoolhouses shows a steady gain in quality, and is much improved when compared with the work a few years ago. Nearly all the men are working in an excellent spirit and take pride in keeping their buildings in good condition.

LATIN SCHOOL.

The following table shows the membership of the Latin School and the cost of instruction from year to year for five years : —

December	Average Number of Pupils	Number of Teachers in December	Cost of Instruction	Cost per Pupil	Number of Graduates
1901	468	22	$23,710 34	$50 66	56
1902	465	24	25,236 00	54 27	62
1903	474	23	25,472 00	53 74	49
1904	487	23	26,275 50	53 95	50
1905	531	24	26,711 51	50 30	70

The cost of the Latin School to the city is less than the above sums by the amount received for the tuition of non-resident pupils. The amount received this year was $680.

The course of study is arranged for five years, or for four years, and is almost wholly decided by the requirements for admission to Harvard University. Nine and six-tenths per cent of all the graduates have completed the work in four years. The following is the rule relating to the admission of pupils to the high schools : —

"Pupils who have received the diploma of a grammar school may, on recommendation of the master, be admitted to either high school without an examination. For other persons who desire admission, an examination shall be held at the beginning of the autumn term under the direction of the superintendent, but pupils who are qualified to join existing classes may be admitted at any time on application to the principal. No pupil from any grade in a grammar school shall be examined who does not present a satisfactory certificate of having pursued the required studies during the summer vacation."

From three-fourths to four-fifths of the graduates are usually recommended for admission without an examination. About one-half of the remaining part study during the summer vacation, as required by the rule, and take an examination in September. Pupils who pass a fairly good examination are permitted to attend either high school until the Christmas vacation, at which time their connection with the school as regular pupils ends unless their work has been satisfactory.

Diplomas of graduation signed by the mayor and the head master of the school are awarded to pupils of the high schools who have successfully completed the course of study or its full equivalent, and have sustained a good character.

For non-resident pupils the tuition is $80 a year, payable one-half at the beginning, and the other half at the middle of the school year. The sessions of the school begin at 8.30 A. M., and end at 1.30 P. M.

ENGLISH HIGH SCHOOL.

The following table shows the membership of the English High School and the cost of instruction for five years: —

Year	Average Number of Pupils	Number of Teachers in December	Cost of Instruction	Cost per Pupil	Number of Graduates
1901	517	24	$26,265 58	$50 80	60
1902	498	24	26,747 51	53 71	86
1903	493	24	27,109 83	54 99	73
1904	556	24	27,070 83	48 69	76
1905	550	24	26,359 41	47 93	75

This school has for its object the preparation of its pupils for entrance upon active life. It has three distinct courses of study. The plan of the courses is that all pupils in the school shall pursue substantially the same subjects for their first year, but thereafter shall have increasingly divergent studies, open to choice within reasonable limitations and determined largely by aptitude and expectation of subsequent career.

The general course provides a broad, liberal training for boys and girls who expect to end their academic education with the high school, and includes all subjects which are required for preparation to enter the State normal schools. All who propose to become teachers in grammar or primary schools should take this course.

The commercial course is designed to combine with studies which cultivate the mind in a broad way certain others which give special power in processes needed in business life. Bookkeeping is provided in the second year, shorthand and typewriting in the third and fourth, and economics in the fourth. This course should be taken by those boys and girls who expect to enter a commercial career.

The domestic science course is intended for those girls who, while gaining culture of mind, wish also to train the hand in arts that are needed constantly in the home. In the second year they work in wood with tools suitable to their strength, and take up dressmaking. In the third year they learn cooking by theory and practice. In the fourth year they continue their cooking, and deal with the preserving of fruits, with sanitation, and with other problems of household economy.

The requirements for admission to this school and the rules relating to the granting of diplomas are the same as for the Latin School.

For non-resident pupils the tuition is $80 a year, payable one-half at the beginning, and the other half at the middle of the school year. The sessions of the school begin at 8.30 A. M., and end at 1.30 P. M.

RINDGE MANUAL TRAINING SCHOOL.

The following table shows the membership of the Rindge Manual Training School and the cost of instruction from year to year for the past five years : —

Year	Average Number of Pupils	Number of Teachers in December	Cost of Instruction	Cost per Pupil	Number of Graduates
1901	191	14	$17,988 33	$94 18	21
1902	242	15	19,108 67	78 96	23
1903	262	16	21,125 50	80 63	38
1904	315	19	23,167 16	73 55	30
1905	396	22	26,487 00	66 89	32

The cost of the Rindge Manual Training School to the city is less than the above sums by the amounts received from Harvard University for the instruction of a class of students during the summer vacation, and for the tuition of non-resident pupils. The amount received this year from both sources was $4,730.50.

The course of instruction covers four years. Proper emphasis is given to the academic features of the course, and the work is made interesting and effective by bringing it into intimate relation with instruction in the mechanic arts.

The manual dexterity and the thorough knowledge of tools, machinery, and mechanical processes acquired in the shops, at an age when time can be most easily spared for such training, is of inestimable value in any scientific pursuit.

The sessions are five and one-half hours a day, instead of five as in the other high schools. About one-third of the time is given to the work of manual training, and the remainder to the subjects usually taught in high schools, with the exception of Latin and Greek.

The requirements for admission to this school and the rule relating to the granting of diplomas are the same as for the Latin School.

For non-resident pupils the tuition is $150 a year, payable one-half at the beginning, and the other half at the middle of the school year. The sessions of the school begin at 8.30 A. M., and end at 2 P. M.

The following is from the report of the committee on high schools: —

In accordance with Section 30 of the Rules of the School Board, the committee on high schools begs leave to submit the following as its annual report for the year 1905: —

There has been no change in the administration of our high schools during the past year.

In the Latin School there has been a marked increase in the number of pupils. The number registered in 1904 was five hundred sixteen, whereas that in 1905 was five hundred sixty-four, making the largest number ever registered in the school, and the greatest increase over the previous year for more than ten years except in 1901.

There are more substitute teachers in the school at present than usual. Three regular teachers are absent in accordance with Section 69 of the Rules of the School Committee. We very much regret the absence of Miss Helen W. Munroe from the school on account of the death of her father, Mr. William A. Munroe, who for thirteen years was a valued member of this Board and for several years chairman of this committee and from whom this school was the recipient of many valuable gifts.

Mr. Adams, an able and efficient teacher, who has been connected with the Latin School for the past thirty-six years, returned at the opening of the school in September, after having his sabbatical year abroad. But, after a few weeks' work, it became necessary on account of illness in his family for him to leave the city and it is very doubtful if he will ever take up his work again in the Cambridge schools.

In 1900 the number of teachers in the Latin School was twenty-two and the number of pupils registered was four hundred thirty. This year the number of teachers is twenty-four and the number of pupils registered five hundred sixty-four, one hundred thirty-four more pupils, and only two more teachers. At that time nearly every teacher had one hour a day for helping pupils who were in need of individual attention. Now very few teachers have time for this work during school hours. It is considered very desirable for all teachers, and especially for the teachers of the entering class, to have time in school sessions to devote to pupils who need assistance and encouragement. We recommend that one male teacher at least be added to the teaching force of the school next year, as there are but three permanent male teachers in the school at the present time.

A few words in reference to the Charity of Edward Hopkins may be of interest. Edward Hopkins who established this fund for classical education in Cambridge was born near Shrewsbury, England, in 1600. He was educated in the Royal Free Grammar School of that town and followed mechanical and commercial pursuits in London by which he accu-

mulated a considerable fortune. He became early in life imbued with the idea of worshipping God according to the dictates of his own conscience. Consequently, he came to this country with personal friends in 1637. He joined the settlement at Hartford and later was elected for several years governor of that colony at Connecticut. He returned to England in 1653 and died in London in 1657. A full account of his bequests and the disposition of them up to 1854 will be found in the report of the school committee of Cambridge for 1885, at which time an agreement was entered into between the trustees of the Charity of Edward Hopkins and the city of Cambridge "whereby the income of the Hopkins Fund, as has been heretofore appropriated to the support of the said classical school, shall be paid over to the treasury of the city of Cambridge, as provided for by act of the legislature passed in 1839. The city of Cambridge on its part agrees that the money thus paid out by the trustees to the treasury of the city of Cambridge shall be subject to the order of the school committee, to be by it appropriated exclusively to the improvement of the means of classical instruction in the high school under its charge. The understanding and agreement between the parties is that the money thus derived from the Hopkins Fund shall be considered as so much added to the provisions already made by the city for said high school, and that the benefits of the same are to accrue exclusively to boys in said high school preparing for college.

"It is also agreed that the city of Cambridge, so long as said portion of the income of the Hopkins Fund is paid into the said treasury, shall receive into said high school and admit to all the privileges and advantages thereof, free of expense, any number of boys, not exceeding nine, at any time, who being properly qualified, shall be selected for admission thereto by the President and Fellows of Harvard College and the Minister of the First Church of Cambridge."

This agreement is practically still in force, but can be terminated at the will of the trustees of the Hopkins Fund whenever they reopen the Hopkins Classical School.

It appears that ever since the income from this fund was turned over to the city treasurer in 1854, it has remained in the general fund of the city and has been used as much to build streets for the city as for the means of development of classical education. In fact it has been used to lower the tax rate in the city.

The disposition of this fund came to the attention of the trustees of the Charity of Edward Hopkins. They at once requested that the school committee of the city of Cambridge appropriate in some distinctive way the income paid yearly to the city treasurer for the improvement of the means of classical education in the Latin School. This communication

was referred to the committee on high schools, which recommended that the income be used in the following way : —

First.— To defray the cost of tuition at the regular rate of those boys, not exceeding nine, who have been selected and presented for admission by the President and Fellows of Harvard College and the Minister of the First Church in Cambridge.

Second.— To award a prize of one hundred dollars to be known as the "Hopkins Prize" to the boy in the graduating class, who, in the opinion of the chairman of the high school committee, the superintendent of schools and the Hopkins classical teacher, is most worthy in respect to scholarship, character and need. This prize is to be awarded at the beginning of June, and is to be paid in two equal parts, one early in October, provided the prizeman has begun his college course, and the other early in March, provided he has successfully passed his mid-year examinations. An alternate may also be selected on the same basis to whom the prize shall be awarded, in case the man first selected fails to meet the conditions named.

Third.— To use the balance each year in the purchase of books for the library of the Latin School for the use of improving the means of classical instruction in that school for boys preparing to enter college, and to have these books appropriately marked.

This fund, which is paid to the city treasurer annually in May, has been used in part the past year in the following way : —

Tuition of three pupils	$136 00
One-half of the Hopkins Prize . .	50 00

The first scholarship awarded under the new agreement for the use of the income of the Edward Hopkins Fund was given to Leslie F. Ellsbree of the class of 1905. He ranked second in the class and stood first among the young men. The present year four pupils have been designated by the President and Fellows of Harvard College and the Minister of the First Church as deserving of the benefits of this fund, and it is expected that they will continue in the school throughout the year.

It is not probable that more than four or five pupils in any one year will avail themselves of this fund, and the number of books that can be purchased for the purpose of improving the means of classical instruction in the Latin School is limited. The committee recognizes the advisability of awarding a prize of one hundred dollars to be known as the "Hopkins Prize" to a girl in the college preparatory class under the same conditions as the prize now offered to boys.

During the year the Latin School has had gifts as follows: — A large plaster cast of Hebe from the class of 1905. Twenty-five framed photographs from Mr. and Mrs. Joshua Kendall. Mrs. Kendall was a member of the school board for fifteen years and has taken a great deal of interest in our high schools.

The changes in the courses of study in the English High School, which went into effect at the opening of the school in September, 1904, were quite sweeping and have been in operation during the past year. The course preparatory for the scientific schools, or the scientific course, was eliminated as the number of boys taking this course had been growing smaller each year; and, as it was practically a duplicate of the course given at the Rindge Manual Training School, it was thought best by the committee appointed to revise the course of study in the schools to drop it, and the commercial and general courses were enlarged and enriched in the hope that this might increase the number of boys admitted to this school. But this change has not had the desired effect, as there were but twenty-four boys admitted at the opening of the school in September, 1904, and nine in September, 1905. The total number of boys in the school at the present time is sixty-three. It would seem that the ultimate disappearance of boys from the English High School is fast becoming an assured fact, unless some changes in the course of study be devised that will make this school more attractive to boys entering our high schools.

The number of teachers in the English High School has remained the same for several years. At the opening of the school in September there was missed from the teaching force Miss Emma Adeline Scudder who retired from active teaching at the close of the school year. She was first appointed September 20, 1864, when Dr. William J. Rolfe was head master. Inasmuch as she graduated from this school in 1858 after spending the previous four years in the school, she has the unique record of having been associated as pupil or assistant teacher with every head master who has had charge of the school, either of the undivided Cambridge High School or of the Cambridge English High School. The head master pays her the following tribute: —

"Her forty-one years of service have been characterized by remarkable regularity of attendance, efficiency of work and sweetness of spirit. The years have dealt lightly with her as respects health and vigor, and the end of her teaching found her still cheerful in manner, successful as a teacher and ready for all the emergencies of the schoolroom. Her adroitness of nature and capacity for detail were not only manifested in the progress of her daily work in her principal subject, botany, but appear in the admirable form in which cabinets of botanical specimens and appliances were left for the use of her successor, and also in a portfolio

which she has given to the school containing a vast amount of printed and other material bearing upon the history of the old high school, and particularly of the English High School since its origin. Her presence is greatly missed by teachers and pupils."

The course in stenography and typewriting has become very popular with the girls, and it has been necessary this year to purchase three additional typewriters to meet the demands of this course. The only available room in which this course can be taught was formerly a cloak room in which the light is insufficient for its present use. Now that the class has become larger, the room is overcrowded; and with the prospect of a still greater increase, and with no room for the organization of the class in dressmaking, which is a part of the domestic science course, it is the opinion of this committee that additional room should be provided by the extension of one of the wings of this building before the opening of the schools in September, 1906. This would make it possible to remove the classes in cooking from the basement.

A fine photograph of Guido Reni's Aurora, which hangs on the west wall of the assembly room, was received from Miss Carrie F. Abbott in memory of her brother, Emery Willard Abbott, a member of the class of 1874, who died shortly after his graduation.

The course in physical training in the English High and Latin schools is becoming more popular each year, as there has been a steady increase of girls taking this course since the gymnasium was reopened in 1902. The number has increased from two hundred thirty-two in 1902, to four hundred sixty-seven in 1905. This goes to show not only that four hundred sixty-seven girls are desirous of taking this course, but that the parents are equally anxious that their children should have some physical training in connection with their high school work, as no girl is permitted to enter the classes until the parents have requested it by signing an application blank furnished by the school committee. The work and results are as satisfactory as could be expected when we consider that the classes are large and that there is no apparatus for carrying on the work. This committee would call the attention of the Board to the advisability of including a gymnasium in the basement, when the plans are made for an addition to the English High School building.

The changes which have taken place the past year in the plant of the Rindge Manual Training School have been the most important since it was founded by Mr. Frederick H. Rindge in 1888. The entire Washington building was occupied by this school for the first time at the opening of the school in September.

In consequence of the increased number of pupils in each class a request of this committee for increased facilities and changes in sanitary

conditions was met by the city government by an appropriation of $20,000. Of this amount, $13,000 was expended by the public buildings department, and $7,000 by the school department. The basement of the mechanical building has been completely remodeled, windows enlarged, toilet facilities renewed and two hundred sixty lockers installed. These improvements make our basement facilities a model of their kind. The buildings department has also installed one hundred ninety lockers in the Washington building.

Our foundry is light and airy as compared with the old conditions. The school department has purchased ten lathes for the machine shop. One of these has been installed in the demonstration room of the second floor of the mechanical building. The others are now installed and in use in the machine shop. Seven soldering furnaces have also been added to the equipment of this building. The head master reports that the pupils are now building a surface grinder which will be installed within a few months. The necessary small tools have been provided for the larger classes.

The carpentry department has been transferred to the second floor of the shop building and twenty-seven benches and accompanying tools added to the old equipment. A double grindstone has been purchased and connected with the shafting. The wood turning has been enlarged by taking a space formerly occupied by the carpentry department and thirteen lathes have been added; also the small tools required to complete the equipment, including a multiple glue pot.

The drawing department now occupies three rooms in the Washington building, and the necessary tables, drawing boards and racks have been provided by the committee on supplies.

A chemical laboratory has been equipped in the science building for classes of thirty pupils. This relieves the physical laboratory and gives us a science equipment equal to any of its size.

The lunch room occupies the large hall in the science building and the adjacent room.

The school is now equipped for five hundred pupils, with the exception of some slight additions to furniture and cabinets in some of the shops and the addition of fifty lockers which were asked for last year.

The teaching force has been increased by the addition of two teachers in the academic department and one teacher of free-hand drawing.

A physical director is needed for the boys in our high schools in order that they may receive the benefits of proper athletic training. The hall in the science building of the Rindge Manual Training School could be equipped and would make a suitable gymnasium.

MANUAL TRAINING IN OTHER SCHOOLS.

The statutes require that every town and city of twenty thousand or more inhabitants shall maintain, as part of both its elementary and its high school system, the teaching of manual training. The Rindge Manual Training School gives the required instruction to boys of the high school grade, and provision is made in the English High School for girls of this grade, sloyd being taught in the second year, and cooking in the third. Sewing in the grammar schools may be considered as meeting the requirements for girls in the grammar school grades.

The requirement that manual training shall be taught in elementary schools as well as in high schools has not been fully complied with. Provision has been made for the teaching of this subject in only two of the grammar schools during the past year, the Putnam and the Roberts, these being the only schools which have manual training equipment.

In the Putnam School instruction has been given to the boys from one seventh, two eighth, and two ninth grades, and in the Roberts School to the boys from two seventh grades and one eighth grade. The average number of pupils in each class has been twenty. The course of instruction has been based upon, but not wholly confined to, suggestions and principles derived from Larsson's " Sloyd for American Schools."

The superintendent hopes that in the near future provision will be made for the teaching of manual training in all the grammar schools, as required by statute. The work of manual training in all the schools is under the direction of the head master of the Rindge Manual Training School.

WELLINGTON TRAINING SCHOOL.

This school was opened in September, 1884, and differs from the other schools in this respect, — all the grades, except the eighth and ninth, are taught by young teachers. Their work, however, is done under the immediate supervision of a master and three assistants, who are held responsible for the instruction and management of the school. For several years the seventh grade has been taught by a graduate of the training class.

The object of conducting a school on this plan is to give Cambridge young women who desire to teach, and who have made special preparation for the work, an opportunity to gain experience under conditions favorable to their own success, and without prejudice to the interest of their pupils.

Graduates of the English High School or of the Latin School, who have also graduated from one of our State normal schools, are preferred candidates for the position of teacher in this school. Other persons of equal preparation may be appointed.

The required term of service is one year. Teachers are appointed on probation, and may be excused or dismissed at any time by the superintendent, with the approval of the committee on the training school.

No teacher is considered a graduate of the school until by vote of the training school committee she is admitted to the graduate class, which is known as class B.

The money compensation for the first three months, and until satisfactory service is rendered, is at the rate of two hundred dollars a year. For the remaining part of the year it is at the rate of two hundred fifty dollars.

Graduates temporarily employed as teachers in this school are paid at the rate of three hundred dollars a year. Graduates selected to act as substitutes in any school are paid at the rate of four hundred fifty dollars.

That the direct influence of the school may be continued, it is the duty of the master, or of one of the supervising teachers, occasionally to visit the schools of the graduates who are teaching in Cambridge. The school contains all the grades of the grammar and primary schools and a kindergarten.

By the rules of the school board the superintendent is authorized to employ as many substitutes and temporary teachers as may be necessary to take the places of absent teachers. These teachers are usually assigned to the Training School, when not otherwise employed, that there may be at this school a sufficient number of teachers to make it practicable for the members of the training class to visit other schools.

The following is from the report of the committee on the Wellington School: —

Another year of successful work has been completed by the Wellington Training School. No changes have been made in the regular corps of teachers, and the usual number of pupil teachers has been employed to carry on the school.

Your committee would recommend that the old wooden building, which is totally unfit for further use on account of its unsafe sanitary conditions, be replaced by a new structure. The new building should contain the primary grades and the kindergarten connected with the Training School.

Between September, 1904, and September, 1905, twenty-four pupil teachers have been admitted to the school. Of that number, twelve have been voted to class B, five are still connected with the school, and seven have severed their connection with the school in order to engage in other work or to teach in other cities.

The school contains all of the primary and grammar grades and a kindergarten, the number of pupils being about eight hundred.

GRAMMAR SCHOOLS.

The number of pupils in these grades on the first of December was seven thousand seventy-three and the number of teachers, including masters and special teachers, was one hundred ninety-one.

The cost of instruction for each pupil for the year has been $21.27. This does not include the cost of supervision or the cost of the Wellington School.

For non-resident pupils the tuition is $30 a year, payable one-half at the beginning, and the other half at the middle of the school year.

The course of study is for six years, but the schools are so classified as to give the pupils an opportunity to complete the course in four years, or in five years. The average age of those who entered the grammar schools last September was nine years eight months. The number of graduates in June was seven hundred twenty, their average age being fourteen years ten months. Of these, 6 per cent completed the course in four years, 28 per cent in five years, 53 per cent in six years, and 13 per cent in seven years or more.

Pupils are promoted by classes from the primary schools at the beginning of the autumn term; but individual pupils may be promoted at other times, if it is deemed expedient by the supervisor of primary schools and the superintendent.

Promotions from grade to grade in the grammar schools, and from the grammar to the high schools, are made by the teachers under the direction of the masters and the superintendent. Pupils qualified to join existing classes may be admitted at any time on application to the master of the school. No regular pre-announced examinations are held in these schools, but the results of such written exercises and reviews as the teachers and masters may require from time to time may be used as a part of the basis of promotion.

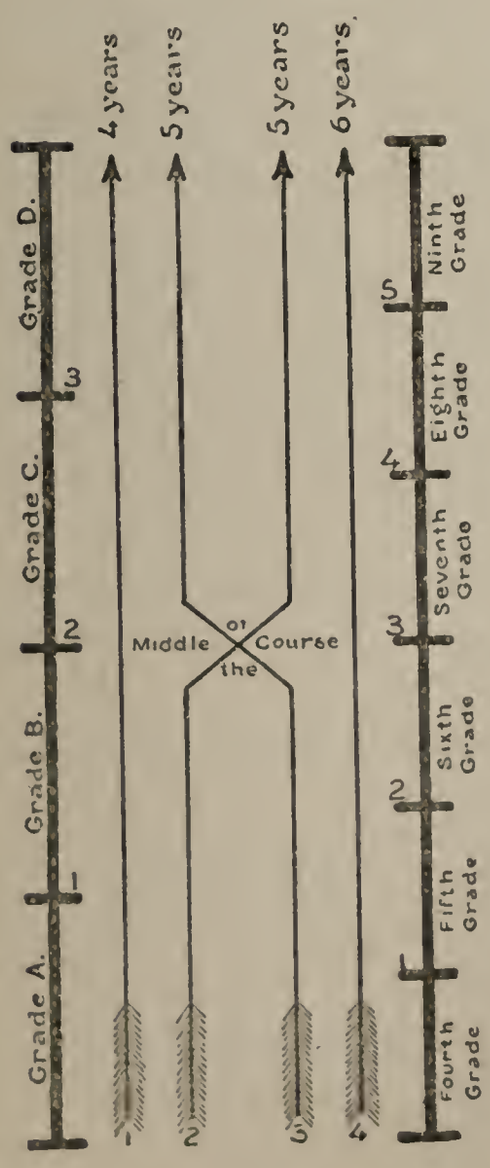
The thoroughness with which the work is done in the grammar schools is shown in part by the ability of the pupils to do the work in the high schools. The pupils are admitted to the high schools on trial; and, by the rule of the high school committee, any pupil who fails to maintain a suitable rank is reported to that committee, and no pupil thus reported can continue in either high school, except by special vote. For the past four years, however, provision has been made by which pupils in the entering class, whose record at the time of the Christmas recess was such that promotion at the end of the year would be impossible, have been allowed to remain in the English High School and receive such instruction as would best fit them to enter again upon the regular work of the school at its reorganization in September. A similar provision has been made at the Latin School this year.

In the grammar schools, special teachers are appointed to help such pupils as seem able to do the work in less than six years, and to aid those who without personal instruction would require more than six years. This action of the committee removes the most serious objection to the graded system of schools.

The course of study is divided in two ways: (1) into six sections; (2) into four sections; each section covering a year's work. Pupils taking the course in six years are classified in six grades, called the fourth, fifth, sixth, seventh, eighth, and ninth grades. Those taking it in four years are classified in four grades, called grades A, B, C, and D. When pupils are promoted to the grammar schools they begin the first year's work together. After two or three months they are separated into two divisions.

One division advances more rapidly than the other, and during the year completes one-fourth of the whole course of study. The other division completes one-sixth of the course.

During the second year the pupils in grade B are in the same room with the sixth grade. At the beginning of the year they are five months (one-half the school year) behind those in the sixth grade. After two or three months grade B is able to recite with the sixth grade, and at the end of the year both divisions have completed one-half the course of study — the one in two years, and the other in three years. The plan for the last half of the course is the same as for the first half, the grades being known as the seventh, eighth, and ninth in the one case, and as C and D in the other.



There are also two ways of completing the course in five years: (1) any pupil who has completed one-half the course in two years may, at the end of that time, be transferred to the seventh grade, and finish the course in three years; (2) any pupil who has completed one-half the course in three years may, at the end of that time, be transferred to grade C, and finish the course in two years. In both cases these changes can be made without omitting or repeating any part of the course.

It is now fourteen years since the schools

Arrow No. 1 indicates the four years' course; grades A, B, C, D. Arrow No. 2 indicates one of the five years' courses; grades A, B, 7, 8, 9. Arrow No. 3 indicates the other five years' course; grades 4, 5, 6, C, D. Arrow No. 4 indicates the six years' course; grades 4, 5, 6, 7, 8, 9.

were classified on this plan. During this time eight thousand two pupils have graduated from the grammar schools. Of this number, 7 per cent completed the course in four years, 29 per cent in five years, 49 per cent in six years, and 15 per cent in seven years or more.

Of the number who entered the Latin School during the past eleven years, 14.8 per cent did the work in the grammar schools in four years, 43.4 per cent in five years, 39.0 per cent in six years, and 2.8 per cent in seven years or more. Of those who entered the English High School and took the general course, 9.0 per cent did the work in the grammar schools in four years, 36.3 per cent in five years, 44.1 per cent in six years, and 10.6 per cent in seven years or more; of those who took the commercial course in the English High School, 8.2 per cent did the work in the grammar schools in four years, 32.8 per cent in five years, 51.5 per cent in six years, and 7.5 per cent in seven years or more. Of those who entered the Rindge Manual Training School, 4.4 per cent did the work in the grammar schools in four years, 31.7 per cent in five years, 51.7 per cent in six years, and 12.2 per cent in seven years or more.

During the past eleven years more than 45 per cent of the pupils entering the high schools did the work in the grammar schools in less than six years, 36.8 per cent doing it in five years, and 9.7 per cent in four years. It does not follow, however, that because so many did the work in less than the full time, the plan is a good one. Its value is shown, rather, by the thoroughness with which the work has been done, not in one year only, but in a series of years. The results of the first year's work in the high schools would seem to be a test of this thoroughness. The records in these schools show that for eleven years the marks of the pupils who were four years in the grammar schools were higher than were the marks of those who were five years in the grammar schools; and that the marks of those who were five years in the grammar schools were higher than were the marks of those who were six years in the grammar schools.

The average per cents of the first year's work in the different high schools for eleven years are as follows: —

In the Latin School, the average per cent of the pupils who completed their grammar school work in four years is 80.1; of those who completed it in five years, 76.0; of those who completed it in six years, 72.2.

In the general course of the English High School, the average per cent of the pupils who completed their grammar school work in four years is 78.2; of those who completed it in five years, 75.9; of those who completed it in six years, 73.4.

In the commercial course of the English High School, the average

per cent of the pupils who completed the grammar school work in four years is 73.7; of those who completed it in five years, 72.8; of those who completed it in six years, 70.2.

In the Rindge Manual Training School, the average per cent of the pupils who completed the grammar school course in four years is 72.5; of those who completed it in five years, 69.3; of those who completed it in six years, 68.0.

The following table will be of interest as showing the results of the first year's work in the high schools of the eleven classes from 1895 to 1905 inclusive: —

IN THE LATIN SCHOOL.

Record of Eleven Different Classes	Four Years in Grammar Schools	Five Years in Grammar Schools	Six Years in Grammar Schools
First Year in High Schools	Average per cents in High Schools	Average per cents in High Schools	Average per cents in High Schools.
Class of 1895.....	78.7	78.9	76.4
Class of 1896.....	80.4	77.0	71.6
Class of 1897.....	79.3	72.5	66.9
Class of 1898.....	77.1	72.3	67.8
Class of 1899	80.0	73.0	61.8
Class of 1900.....	81.1	75.9	75.4
Class of 1901.....	79.6	75.2	70.1
Class of 1902.....	81.0	77.5	74.7
Class of 1903.....	83.0	79.1	74.7
Class of 1904.....	81.0	76.6	75.9
Class of 1905.....	78.2	77.8	73.5

IN THE ENGLISH HIGH SCHOOL, GENERAL COURSE.

Class of 1895.....	77.3	76.2	73.4
Class of 1896.....	85.9	75.1	76.4
Class of 1897.....	79.7	78.7	72.2
Class of 1898.....	77.6	75.8	77.0
Class of 1899.....	75.6	75.1	69.1
Class of 1900.....	79 2	73.4	71.1
Class of 1901.....	72 8	75.2	73.2
Class of 1902.....	82.2	75.3	74.3
Class of 1903.....	86.6	77.0	72.7
Class of 1904.....	75.3	76.6	75 4
Class of 1905.....	76.7	75 3	74.0

IN THE ENGLISH HIGH SCHOOL, COMMERCIAL COURSE.

Record of Eleven Different Classes	Four Years in Grammar Schools	Five Years in Grammar Schools	Six Years in Grammar Schools
First Year in High Schools	Average per cents in High Schools	Average per cents in High Schools	Average per cents in High Schools
Class of 1895.....	73.7	73.5	69.8
Class of 1896.....	74.8	70.9	68.4
Class of 1897.....	76.3	69.0	69.3
Class of 1898.....	75.7	73.8	69.5
Class of 1899.....	69.5	68.5	68.9
Class of 1900.....	69.2	73.6	72.5
Class of 1901.....	76.0	73.6	70.5
Class of 1902.....	74.9	75.5	73.3
Class of 1903.....	74.3	76.6	70.9
Class of 1904.....	72.7	73.1	69.6
Class of 1905.....	75.7	74.1	69.8

IN THE RINDGE MANUAL TRAINING SCHOOL.

Class of 1895.....	72.6	65.4	65.9
Class of 1896.....	79.3	63.5	65.2
Class of 1897.....	78.6	67.2	61.7
Class of 1898.....	81.7	69.5	68.9
Class of 1899.....	....	67.5	67.8
Class of 1900.....	72.6	69.6	68.0
Class of 1901.....	80.0	67.8	68.4
Class of 1902.....	80.4	71.9	69.2
Class of 1903.....	70.4	73.5	70.3
Class of 1904.....	76.2	71.6	68.7
Class of 1905.....	64.8	68.7	68.7

The results already given are based on the first year's work in the high schools. For five years results have been obtained based on the full course in the high schools. During these five years, two hundred eighty-seven have graduated from the Latin School. Of these two hundred eighty-seven, two hundred twenty were graduates of the Cambridge grammar schools. Of these two hundred and twenty, thirty-eight did the work in the grammar schools in four years, and their average per cent for the Latin School course was 82.8; one hundred twenty-four did the work in the grammar schools in five years, and their average per cent for the Latin School course was 76.7; fifty-five did the work in the grammar schools in six years, and their average per cent for the Latin School course was 75.0; three did the work in the grammar schools in seven years and their average per cent for the Latin School course was 71.7.

During these five years, three hundred sixty-nine pupils have graduated from the English High School. Of these three hundred sixty-

nine, three hundred six were graduates of the Cambridge grammar schools. Of these three hundred six, twenty-five did the work in the grammar schools in four years, and their average per cent for the high school course was 76.7; one hundred twenty-one did the work in the grammar schools in five years, and their average per cent for the high school course was 75.9; one hundred thirty-nine did the work in the grammar schools in six years, and their average per cent for the high school course was 75.0; twenty-one did the work in the grammar schools in seven years, and their average per cent for the high school course was 73.3.

PRIMARY SCHOOLS.

The number of pupils in these schools on the first of December was five thousand eight hundred fifty-four, and the number of teachers was one hundred forty-four.

The cost of instruction for each pupil for the year has been $17.29. This does not include the cost of supervision or the cost of the Wellington School.

For non-resident pupils the tuition is $20 a year, payable one-half at the beginning, and the other half at the middle of the school year.

The course of study is for three years. Children five years old are admitted to the first grade at the beginning of the school year and during the first week in March. Pupils qualified to join existing classes may be admitted at any time on application to the principal. At the present time, 39 per cent of the pupils are in the first grade, 30 per cent in the second, and 31 per cent in the third.

One thousand four hundred twenty-seven pupils graduated last June at an average age of nine years six months. Of these, 3 per cent completed the course of study in less than three years; 60 per cent in three years; 6 per cent in three and a half years; and 31 per cent in four years or more.

Promotions from grade to grade in the primary schools, and from the primary to the grammar schools, are made by the primary teachers, under the direction of the supervisor of primary schools and the superintendent. Promotions by classes are made annually at the beginning of the autumn term; but individual promotions are made at other times if it is deemed expedient by the supervisor of primary schools and the superintendent.

Pupils are promoted to the grammar schools on trial, and those who show by their work that they are unprepared are returned to the primary schools on the approval of the supervisor of primary schools and the superintendent.

Once a month the teachers of each primary grade meet the directors of special studies and the supervisor of primary schools. These meetings are held in the English High School building on Wednesday afternoons, half an hour after the close of the schools. The work for the coming month is planned; criticisms and suggestions in regard to methods are made; and questions from the teachers are answered and discussed.

Occasionally specimens of written work from all the pupils are brought for examination. In this way the amount of work done in the schools is made somewhat uniform; new teachers are kept informed as to the requirements, and pupils lose less time when a change of teacher or school becomes necessary.

The supervisor of primary schools writes as follows: —

Few changes from last year have occurred in the plan of work in the primary schools; but there has been a gain in results, especially in reading. With a surer knowledge of phonics the children are much more independent of help, and are able not only to read more, but to better understand and enjoy what they read.

Enthusiastic experiments made by several teachers in the various methods of teaching reading, have gone to show that the best and most expeditious way to teach phonics is to use the dictionary for a manual and the usual readers for text-books.

During the fall term the teachers have been bringing to the grade meetings suggestions for desk work programs, also materials for use in desk work, and specimens of the children's work. Whatever a teacher found or invented that proved useful to her own class has been freely shared with all the others. This has been especially helpful to teachers working in a grade for the first time.

There is an increasing desire to have a definite spelling program, so that there may be more uniformity in what the different rooms in each building accomplish; and also that one grade may not repeat the work of the preceding grades.

The teachers are expressing a strong desire for desk books containing fresh material and embodying the most recent methods. One more set of readers for each grade could be used to advantage.

Each year emphasizes the inconvenience and inexpediency of continuing children over ten years old in our primary rooms. It is not only a source of mortification to these large pupils, but it is a detriment to the smaller children in many ways.

At present the work of the various programs is very well understood and carried out; so, unless there should be a decided change in the course of study, it would seem as if we could now afford to use some of the program meetings for lectures or papers on subjects of especial interest and helpfulness, from outside sources.

It is only justice to acknowledge the unflagging interest on the part of the teachers, and their earnest endeavors to accomplish their work in the best manner. If discouragement or failure comes it is not due to any lack of faithful effort on their part. To use the comment of a visitor to our schools, "They have learned to work hard and to save time by preventive discipline."

KINDERGARTENS.

The number of pupils in the sixteen kindergartens on the first of December was eight hundred thirty-four and the number of teachers was thirty-two.

The cost of instruction for each pupil for the year has been $24.61. This does not include the cost of supervision.

To be eligible to the position of teacher in a kindergarten, a person must have had a course in a high school, a course in a kindergarten normal school, a year's experience in teaching either in a kindergarten or a primary school, and must be able to play the piano.

Students in kindergarten normal classes are given opportunities to observe during their two years' course, and are allowed one month's experience in the first primary grade, but it is not deemed expedient for them to observe after graduation.

Teachers in kindergartens are to use their afternoons in visiting the homes of their pupils, with a view of maintaining friendly relations with the parents and of securing regularity of attendance, except when the time is needed for preparation for their work, and they are to make reports on blanks prepared for this purpose. The average number of visits made by both principal and assistant to homes of children is about one hundred fifty.

The following is from the report of the committee on kindergartens: —

On December 1, 1895, there were in Cambridge eight kindergartens with sixteen teachers and four hundred seventeen pupils. On December 1, 1905, there were sixteen kindergartens with thirty-two teachers and eight hundred thirty-four pupils. It is interesting to note that the kindergarten system has exactly doubled in ten years. The average number of pupils in a kindergarten is fifty-two.

At the request of many mothers living in the district, a kindergarten was opened in the Wyman School last March. The Holmes Kindergarten was discontinued and the teacher transferred to the Wyman Kindergarten, which has at present forty-seven pupils and two teachers. In March also was opened the long-needed Parker Kindergarten. This kindergarten has forty-six pupils and two teachers.

In connection with each of the sixteen kindergartens is a mothers' club, well organized and active for the best interests of the children. Several of these clubs are reaching outside their special work to help other good causes.

During the past year the members have had the privilege of listening to valuable papers on such subjects as district nursing, the consumers' league, pure food and the treatment of tuberculosis. The mothers have expressed themselves as greatly indebted to the ladies who have given or provided these lectures.

In January the city lost a teacher of rare qualities by the death of the principal of the Corlett Kindergarten. The vacancy was filled by the promotion of the assistant teacher.

Two other assistants have become principals, one at the new Parker Kindergarten, and one for the year at the Boardman Kindergarten.

There are frequent and urgent requests from parents living in the Morse district for a kindergarten in that district. This would not necessitate a new kindergarten, as the afternoon kindergarten at the Willard building could be transferred if only a room could be provided.

KINDERGARTEN PLAY.

The following account of kindergarten play has been furnished by the principal of the Peabody Kindergarten. It is of interest and value as it shows the carefully arranged plans in accordance with which the play of the kindergartens is managed : —

The use of music and games in the training of children was not original with Froebel, but the *way* in which, and the purpose for which they are used in the kindergarten, are certainly unique.

With other educators they serve either to strengthen the muscles, to give appropriate exercises, or to cultivate gracefulness, while in Froebel's plan, kindergarten play is valuable not only for its effect upon the physical development, but for the sake of the mental and spiritual activity it calls forth.

"By reproducing the life of plants, and animals, of human beings in his games, and by the simple hymns of love and gratitude which he sings, the child is led to understand his three-fold relationship as a child of nature, a child of man and a child of God."

By means of play he is also learning to know himself by seeing what he can do, and then he is revealing himself to others.

Froebel made a collection of songs and games which are in use in the kindergartens today, and the reason we can still use them is because all of them are based upon typical aspects of nature and of human life.

Froebel groups kindergarten games into four general classes, which he calls: (1) Physical plays. (2) Sense plays. (3) Movement plays proceeding from the ball. (4) Intellectual plays.

They are not equally important, but each is needed at some stage of the child's development.

Do not think we exhaust all the games belonging to one group, before playing those of another, for such is not the case.

From the very beginning of the year games belonging to each group are in use, but at first very simple ones, and those in which all can take part.

(1) Physical plays: By physical plays Froebel meant those which were valuable, chiefly as a means of exercising a child's muscles and aiding in his physical development. For instance, we know if we wish to develop a child's legs, we must let him run, jump, skip, etc.; if we wish to develop his chest, back or arms, we must select gymnastic exercises best suited to this purpose.

Instead of doing this in a formal way, however, we say to the children, "You may all be ponies" and away they run; "You may be a squirrel and I will catch you;" "You may take your jump rope and skip;" "You may go rowing or skating;" "You may make a snow man or snow fort and knock it over by throwing imaginary snowballs."

These physical plays are a constant source of delight to the children, who never tire of them but choose them again and again each day during our half hour of games.

(2) Sense plays: By sense plays we mean those games which have as their main object the exercising and training of the five senses, touch, taste, smell, hearing and sight.

One of the games for developing the sense of touch is called "The Mystery Man." The children close their eyes and the "Mystery Man" takes an object from his bag and places it in their hands and they are to tell by feeling alone, what object they have. At first the name alone is given, but later in the year the material and the qualities of the object as well can readily be told.

For the sense of taste, there is a game in which the children while blindfolded are allowed to taste different kinds of food and to tell us what they have eaten.

As in each of these sense games we concentrate on one particular sense to the exclusion of the others, it is easy for us to discover where the children need help and further practice.

(3) Ball games: These games are so numerous it is difficult to know which ones to emphasize. There are games to teach form, number, color, direction, rhythm, games by means of which we help the children to become careful, attentive and skilful.

Beginning with simple rolling while all are sitting on the circle, we next try rhythmic rolling, either counting or singing one, two, three, etc.

When the children have gained some skill and dexterity in handling the balls and have grown more careful and attentive, we begin rolling to hit an object, which trains the eye as well as the hand, then rolling into a small circle, which means using just the right amount of force necessary to take the ball so far and no farther, then bouncing and tossing the ball, more difficult than either.

(4) Intellectual plays: By intellectual plays Froebel meant all those which necessitate thought, reflection and judgment, all plays in which the children represent the activities of the farmer, the carpenter or blacksmith and persons of other occupations; all games where they imitate the movements of windmills or weathervanes, or games which are representations of organic life, when the children play they are birds, butterflies, bees, frogs or flowers.

What the child imitates he begins to understand. Let him represent the flying of birds, or the rapid movement of fishes and his interest in both is quickened.

These games require much more from the child than the simpler physical and sense plays. They are always either an outgrowth of previous experience, or are preceded by a talk or story which is designed to explain the words, and make clear the phases of feeling they illustrate.

For instance, we wish to impress upon children the thought of home and mother love, so we choose a nest to symbolize our own homes, as this is one of the simplest of homes. We show nests of all kinds to the children and talk about them; how they are made, how the birds feed and protect their young.

Then we play the bird's nest game and the children enter into its spirit and for the time being are in imagination father and mother birds caring for their little ones.

This little game not only gives the children an idea of home and mother love, but awakens their interest in birds and their sympathy with nature, and this interest and sympathy we hope will later on lead to a study of nature and to a comprehension of the forces, laws and meaning of nature.

In a game called the pigeon house there is the same thought of the home, but the emphasis is placed on the going away from the home and then returning to it again. The pigeons seem to talk to each other on their return and we suggest to the children that they are telling each other what they have seen and done during their wanderings.

By means of this game we hope the children will be lead to tell their mothers on their return from kindergarten, everything they have done

during the morning, for we believe that if a mother has gained the confidence of her child by her sympathy in the beginning, and if she can hold it, the child will not only tell her all that has happened, but will be apt to refrain from doing what he would not like to tell her about.

Later comes the transition from the home and the family to the helpers of the home. Children must begin to realize that home is not self-sustaining but dependent on outsiders, and they should feel grateful to each for work done.

Faithful service should be appreciated as well as paid for, and the child should early be taught that work is a privilege as well as a duty.

This series of games is introduced by a talk about the luncheons the children have just eaten.

We begin with food because the necessity of it is easy for the children to understand. They may get along without sufficient clothing, or a good home, but want of food or lack of it is always noticed at once.

We ask them "Who gave you your luncheon?" "Where did mother get bread?" "Of what is it made?" "Where did she get the flour?" "Where did the grocer get it?" "Of what did the miller make it?" "Where did he get the wheat?" "What did the farmer have to do to get the wheat?" "Who worked that you might have your lunch?"

Following the same plan, we talk to them of milk and cream, and we have cream brought to the kindergarten and we make butter so that the children may be helped to understand the process. We also take them to a baker's, or to a private house and let them see bread and biscuits made.

From this line of thought comes a series of games, and the farmer, miller, baker, grass mowing, churning and bread making songs.

Until Christmas time, all the representation and intellectual games taught the children are those bearing on the family life and relationships; this last series is intended to bring to the child's notice the fact that every one is working for him.

But with the new year comes a change in onr line of thought. As it is a time of summing up one's experiences and forming resolutions we wish to keep the child to an ideal of the simplest kind, to do the duty for which the moment calls.

A clock song or game is taught, for we believe that by imitating the rhythmic utterance of the clock, tick-tack, etc., and the rhythmic swing of the pendulum, the children begin on the one hand to understand the nature of the clock as a measurer of time, and on the other hand to develop in themselves ideals of punctuality and order.

Then in addition to this thought of punctuality — a time for everything and everything at its own time — we emphasize the thought of attention, attending to the duty of the moment.

By means of talks and songs about the light, sun, moon and stars, we try to arouse in the children a desire for something better than personal belongings. We endeavor to show them that the things which really give us the most pleasure are those that all can enjoy.

We wish the children to love truth, honesty and bravery, and hence we make these seem attractive to them, by telling them of the knights and heroes of olden times.

We believe that if we wish the children to gain a spiritual ideal we must present it in a concrete form, in other words if we wish them to be good, we must present goodness in such a way that it will be attractive to them.

Having this thought in mind, we teach a series of knight games, as they are called, and following these come our national songs and soldier games, by means of which we hope to arouse in the children a feeling of patriotism.

In kindergarten we emphasize the fact that soldiers protect our country, and that they are like the knights in being good and brave and willing to leave home and friends in order to serve their country.

Having thus presented the ideal in an attractive form, we next try to have the children realize that there are heroes in everyday life as well, that the ideal is illustrated all around them for any and every one who is doing his work well is embodying an ideal.

With this thought in mind, we take the children in turn to a blacksmith's shop, a wheelwright's and a carpenter's, as three of the most representative trades and after they have seen the activities of each, we teach games illustrating the work, believing that what the child imitates he will begin to understand. We also wish him to respect all kinds of labor, hoping he will realize that work should be appreciated as well as paid for.

Lastly, with the return of spring, we draw the children's attention to the fact of life itself. We take walks during which we observe the leaves which are beginning to grow, and the grass which is becoming greener each day.

We call their attention to the flowering plants in kindergartens, recall their appearance in the fall, their gradual growth, and emphasize the many things that had to be done for them.

We speak of the gardens which every one is making, all the things that must be done, clearing away straw and winter covering so bulbs can come up, fertilizing the soil; preparing the ground for seed which is to be sown, and the necessity, not only of the gardener's care, but of air, light and water.

Then each child is allowed to make a garden and care for it daily, so

that at the end of the year the dependent children, for whom at the beginning everything was done, have now become the care-takers themselves.

From these walks and talks come our points of departure for the spring and the garden games.

From this outline of what we try to do and teach by means of kindergarten songs and games, may be gained an idea of the thought embodied in the plays, of the connection of one with another, and of the fact that no game played in a true kindergarten is taught unless it is really worth while.

SPECIAL STUDIES.

The committee on special studies has the supervision of the instruction in nature study, drawing, music, physical training and sewing.

NATURE STUDY.

The work in nature study includes the study of plant and animal life with some study of minerals and of weather phenomena.

The study of plants was first undertaken, and still makes up the larger part of the work. The study of animal life consists mainly of lessons on insects and birds. The mineral work is confined to lessons on common metals and on building stones.

Plants are studied in grades one to four, inclusive; insects in grades one, two, and four; birds in grade four; weather phenomena in grades one to three, inclusive; and minerals in grade four.

Specimens chosen for study are those in which the pupils have a present interest, and all work is based on present experience. It is kept well within the capabilities of the children, yet novel enough to require their best effort. Whenever it is possible, the nature study is made to correlate with the work in other branches.

The results sought are increasing knowledge of facts gathered by observation; familiarity with environment; and a growing sympathy with nature.

The following is from the report presented by the committee on special studies: —

The course of study as outlined for nature work has been followed during the year. No new lines of work have been attempted.

The number of classes taken out-of-doors for study and the number of teachers taking such classes have increased. It seems best that option should be given the teachers in regard to outdoor lessons since the conditions under which they work vary so widely in different parts of the

city. It is at the same time desirable that this outdoor work be encouraged in order that pupils may learn to study nature itself rather than fragmentary specimens of it.

DRAWING.

The course of instruction in drawing in the primary and grammar grades includes form, color and designing.

The study of form (pictorial representation) is carried through all the grades upon a plan involving type solids and natural forms of leaves, flowers and fruit. Construction drawing of objects and of simple original ornaments is gradually developed by progressive exercises. Geometrical drawing is introduced in the sixth grade and continued through the advanced grades. Drawing from nature receives special attention during the spring and autumn months.

Color is studied in all the grades, colored tablets being used in the primary grades and water colors in the grammar grades. Harmony and mixing of colors are treated as a science in special exercises; while color skill is artistically expressed in original designs and in nature study.

In design, particular attention is given to subjects involving fundamental principles of symmetry, balance, etc., and to methods of working out simple, specific problems in construction and in decoration.

In the English High School, drawing is a required study the first year, and is carried forward upon a plan of which the following is an outline: —

Drawing from objects and from casts, drawing from nature of plant form, drawing to scale, designing (constructive and decorative), and color harmony.

Drawing, designing, or water-color painting, may be taken as an elective study after the first year. The course of lessons includes landscape, still-life, and advanced designing.

In the English High School, the instruction in drawing is given by the director of drawing and his assistant. In the primary and grammar grades, it is given by the teachers under the supervision of the director and his assistant. In the Rindge Manual Training School, there are two teachers of drawing, one of mechanical drawing and the other of free-hand, and the work is done under their immediate instruction.

MUSIC.

The National and Educational Courses in Music are used by the regular teachers in the primary and grammar grades under the supervision of the director of music and his assistant. In the high schools it is given by

the director. Every pupil who is capable of learning to sing is required to give attention to the subject.

In the Latin, English High and Rindge Manual Training schools, forty-five minutes a week are given to the study of musical form and expression as found in choruses, quartettes, etc., from the standard operas and oratorios.

Elementary harmony, counterpoint and composition have been introduced as elective studies for the first and second classes, and boys as well as girls having a special aptitude for music naturally elect these studies, the only requisite being some knowledge of the pianoforte. Pupils of the fourth year in the English High School may elect harmony in place of astronomy, and those intending to go to a normal school are advised to take the course in harmony.

The students are instructed in scale formation, intervals, a logical and comparative view of all true chords, in order to give them the power to construct and resolve these chords for themselves.

The study of harmony is carried well into modulation, and of counterpoint through four simple orders or species, including both the major and minor modes. Harvard College has passed a vote allowing a knowledge of harmony to count in an entrance examination to both Harvard College and the Lawrence Scientific School.

Two periods of fifty minutes each week are devoted to instruction, and occasionally the best compositions of the students are sung or played before the entire school, showing in this way the practical side of the work which will prove an important factor in future teaching.

In the Rindge Manual Training School the young men are taught to sustain their parts without accompaniment in compositions of four part harmony, (first tenor, second tenor, first bass and second bass) the music being selected and arranged for this purpose.

Fifteen minutes a day in the primary, and ten minutes a day in the grammar grades, are devoted to this study; and pupils in the grammar grades are taught to sing and sustain their parts in reading compositions in two, three and four parts.

Memorizing music is a feature in all the grades, including the high schools, and in all graduating exercises it is expected that the music by the pupils will be sung or played without notes. To this end rote singing in all the schools forms a part of the instruction in reading music.

PHYSICAL TRAINING.

The Ling system of physical training is used in the primary and grammar schools. Seven grades are regularly supervised, the classes of

the eighth and ninth grades being supervised only when special request is made by their teachers.

Ten minutes are given each day to the work in the grammar grades and fifteen minutes in the primary grades. The instruction is given daily by the regular teachers in the different classrooms, under the supervision of the director of physical training, who visits each schoolroom as often as time will permit, and who also meets the teachers for special directions from time to time.

During the months of September, October, November, April, May and June, the primary classes have the privilege of outdoor recesses, gymnastics forming a part of the daily program during December, January, February and March only.

Games and marching are freely used until the third year, when a stronger emphasis is placed on formal gymnastics. Games are also frequently used in the lower grammar grades.

The essential aim of the teaching is to make the period one of healthful exercise and recreation, and also to counteract in part the tendency to spinal curvatures and flat chests caused by sitting so many hours a day at the school desks.

SEWING.

Sewing is taught to the girls of the three lower grades in the grammar schools, and to the boys of the fourth grade who desire the instruction. Forty minutes are given to the work once a week in each grade. All the boys are learning to sew, the regular teacher having oversight of their work. The first lessons in sewing are spent in learning the use of the thimble and needle, in threading the needle, making knots, and fastening ends. Running stitches are made during this time on ruled pieces of cloth. Neatness is insisted upon from the beginning. Stamped patterns of stars or circles are worked in running stitch by the more forward. Then basting by measure is taught. Measuring cards are provided for this, and the stitches are made one-half inch in length, with spaces of one-eighth of an inch. All work is upon practice pieces, with colored thread. The first piece has three lines for running stitches and two for basting.

The second practice piece is of double cloth and has two lines of basting. On this piece stitching is taught, the children imitating machine stitching as nearly as possible. Two lines are done by all, and four lines by the best sewers, who also stitch their initials in the centre.

The boys sew on buttons which are brought from home. Strips of cloth for this are basted by those who finish stitching before the others. The shoe button comes first as the simplest, then the two-holed button, then the four-holed. This is the kind of sewing most liked by the boys.

Those who first finish buttons, baste strips for overhanding. This is the last stitch taught in this grade. Those who wish, bring pretty pieces of cloth and make pin-balls. At the end of the year the boys take home all their work. The girls keep theirs for reference the next year.

The work in the fifth grade begins with folding and basting hems, the practice piece having a half inch hem on one edge, and a quarter inch hem on the other. Hemming is practiced until fairly well done, before beginning the model apron of calico, which is then hemmed on the sides and at the bottom.

In January the aprons are laid aside while gathering is taught. The rule for gathering is copied upon paper, and then practiced upon cloth, with attention to the proper position of the hands. Stroking the gathers follows, and the new work is then applied to the model apron. The gathers are stitched to the belt, and the apron carefully finished.

Model pillowcases are given to those who have time to make them, which gives a little practice in overcasting.

Those who finish the year's work take home all the practice work of the two years.

During the first term in the sixth grade those who completed the fifth grade work are taught to make buttonholes, while the others finish their model aprons. After vacation all begin together upon darning on canvas. This being finished, they learn to run a thin place in stocking material, and then to darn a hole. When the darning is finished, buttonholes are taken up again, and then matched patching. Those who have time for extra work practice feather stitching. Throughout the course great care is taken in securing the ends of the thread in beginning, joining and fastening off. The work now requires the services of two teachers besides that of the director.

The following is the course in sewing: *Fourth Grade.* Running, basting, stitching, sewing on buttons, overhanding and making pin-balls. *Fifth Grade.* Hemming, gathering, stroking gathers, model apron, overcasting and model pillowcase. *Sixth Grade.* Buttonholes, darning on canvas, darning a thin place in stocking, darning a hole in stocking and matched patching.

EVENING SCHOOLS

The following account of the evening schools is given by Mr. Sanford B. Hubbard, the agent of the school committee, who has the general supervision of these schools: —

There are now eight evening schools, — two drawing schools, one high school, one manual training school, and four elementary schools. In accordance with the Rules of the School Board, there are two terms of the

evening schools. The first term begins on the second Monday of October, and continues every Monday, Wednesday and Friday evening until the end of the week before Christmas. The second term begins on the first Monday, Wednesday or Friday evening after the opening of the day schools in January, and continues thirty-five evenings. The sessions begin at half past seven o'clock and continue two hours. No session is held on the evening of a holiday, or during the vacations of the day schools.

The evening drawing schools are under the supervision of the director of drawing in the day schools. There are two of these schools, one for instruction in mechanical drawing, which occupies three rooms in the Washington building, and one for instruction in free-hand drawing, which occupies one room in the English High School building. In the mechanical school two courses are provided,—a three years' course in machine drawing, and a three years' course in architectural drawing. In the free-hand school provision is made for a three years' course in free-hand drawing. Diplomas are given to graduates of either course.

The evening high school is held in the English High School building, and offers a three years' course of instruction in the following subjects: arithmetic, bookkeeping, algebra, geometry, stenography, English composition, English literature, civics, history, Latin, French and German. Diplomas are granted to graduates of the three years' course.

The evening manual training school is held in the Rindge Manual Training School building and offers courses in machine-shop work, wood-turning, pattern-making and forging.

The evening elementary schools occupy rooms in four of the grammar school buildings, the Putnam, Roberts, Shepard and Webster. Reading, writing, arithmetic, geography, language, history and bookkeeping are taught in these schools in classes, so far as classification is possible, but a large part of the work is individual. No definite course is arranged, but an opportunity is offered to pupils to prepare to enter the evening high school, and certificates are given to those who are qualified to begin work in that school. In addition to the subjects given above, classes in civil service, sewing, dressmaking, millinery, wood-working and mechanical drawing are formed when a sufficient number express an intention to take any one of these courses.

The following table shows the attendance at the evening schools for the year 1904–1905: —

	Number Registered	Average Attendance	Average No. of Teachers*	Average No. of Pupils to a Teacher	Number of Graduates
Mechanical Drawing...	117	75	4	19	17
Free-hand Drawing....	71	40	2	20	8
High School.....	408	179	10	17	15
Putnam School	846	295	23	13	27
Roberts School	693	247	19	13	27
Shepard School.....	195	95	7	14	17
Webster School.....	164	77	6	13	16
Total.....	2,494	1,008	71	14	127

*The principals and curators are not included in these averages.

The following table shows the cost of the evening schools for the year 1904–1905: —

	Cost of Instruction	Cost of Text-books and Supplies	Cost of Light, Fuel, and Janitors	Total Cost	Cost per Pupil
Mechanical Drawing...	$1,048 00	$38 03	$155 73	$1,241 76	$16 56
Free-hand Drawing....	443 00	51 51	57 35	551 86	13 79
High School.....	1,709 00	38 34	573 54	2,320 88	12 96
Putnam School	2,497 00	120 93	510 35	3,128 28	10 61
Roberts School	2,106 00	96 25	530 99	2,733 24	11 07
Shepard School.....	996 00	36 81	213 58	1,246 39	13 12
Webster School.....	837 00	44 64	213 58	1,095 22	14 22
Manual Training School	180 00	.....	.....	180 00	.....
Total	$9,816 00	$426 51	$2,255 12	$12,497 63	$12 40

During the year 1904–1905, Cambridge maintained seven evening schools occupying forty-two rooms and employing seventy-seven teachers, including the principals. The total registration was two thousand four hundred ninety-four, — one thousand four hundred seventy-five males and one thousand nineteen females, an increase of five hundred thirty-two above the previous year. The average attendance was one thousand eight, an increase of one hundred eighty-six above the year 1903–1904. Forty received diplomas of graduation from the high and drawing schools, and eighty-seven pupils of the lower grades received certificates for admission to the evening high school.

The exhibition of the work in sloyd, needle work, dressmaking and millinery attracted much deserved attention and was creditable to teachers

and pupils. There was also an attractive exhibition of the work of the drawing school at the end of the term. The social influence and good fellowship which have been developed, especially in the classes in sewing, are of great value in the community, creating a spirit of loyalty and of good will which is too often lacking in our city. It is the wish that this influence may be extended and that the schoolhouses may become centers of education and social intercourse to the people living about them, thus promoting loyalty and good will among the different elements that constitute our community.

In accordance with the vote of the Board in June, 1905, the Rindge Manual Training School was opened in October for evening instruction. Two classes have been formed, one in machine-shop work which numbers thirty, and one in wood-turning and pattern-making with a membership of thirteen.

Mr. Charles H. Morse, the head master of the Rindge Manual Training School, accepted the principalship without pay and is looking carefully after the interests of the school. It is expected that the capacity of the school will be taxed in the near future.

The mechanical drawing school was transferred to the Washington building in October.

It is suggested that lectures on subjects interesting and profitable to the community, classes in singing, and opportunities for meetings for social and intellectual purposes could be provided for in connection with the evening schools or in the schoolhouses where there are evening schools, at a moderate expenditure, which would increase the usefulness of these buildings to the community.

VACATION SCHOOLS.

The following is from the report of the committee in charge of the vacation schools: —

The vacation schools were opened Monday, July 10, and continued five weeks in five school buildings, the English High, Fletcher, Putnam, Shepard and Webster. There were two sessions of two hours each day, one class attending the first session, another attending the second. Pupils of the grammar grades only were provided for.

The older pupils were given a choice of sloyd and drawing (one hour each) or of basketry, cooking or sewing, (two hours each).

The younger pupils were given lessons in drawing, water colors, reading, writing and other subjects made especially interesting by the different methods of instruction.

About twelve hundred children expressed a desire to attend the vacation schools, and received cards of admission, of whom eleven hun-

dred fifty-nine were registered. The average attendance for the term was seven hundred seventeen, which shows that the attendance was not as regular as is desirable and that many ceased to attend before the end of the term. These irregularities were especially noticeable in the attendance of the older pupils, many of whom ceased to attend at the end of the fourth week of the term.

The cost of the schools was $1,495 for salaries of teachers and janitors, and $184.64 for supplies, a total of $1,679.64, or $2.34 for each pupil based on the average number belonging. This is ten cents less than the expense per pupil last year.

It would seem desirable that the privilege of attending the vacation schools should be offered to the pupils who graduate from the primary schools in June. This would extend the opportunity to some eighteen hundred pupils and would increase the numbers considerably without a corresponding increase of expense.

The following table shows the lines of work in each school and the attendance upon each : —

School	Subject	Number Registered	Average Attendance
English High School	Academic	52	35
English High School	Basketry	96	57
English High School	Cooking	99	63
English High School	Sewing	52	29
English High School	Sloyd and Drawing	101	63
Fletcher School	Academic	87	54
Fletcher School	Sewing	58	24
Fletcher School	Sloyd and Drawing	88	54
Putnam School	Academic	113	64
Putnam School	Sewing	109	71
Putnam School	Sloyd and Drawing	71	51
Shepard School	Academic	46	25
Shepard School	Sewing	59	41
Webster School	Academic	83	55
Webster School	Sewing	45	31
		1,159	717

SCHOOL LIBRARIES AND THE PUBLIC LIBRARY.

The English High School has a library of about three thousand volumes. The Latin School has only about one-third of this number. Comparatively few books of a miscellaneous character have been added to these libraries for several years, the public library meeting the demand for such books. The need of the schools is for books of reference and for sets of books for class study. The library at the Latin School will in

future receive accessions from the income of the Hopkins Classical Fund according to the arrangement described in this report.

The grammar schools, with the exception of the Morse and the Webster, are not supplied with books for general reading. These are obtained from the public library, and during the year sixteen thousand four hundred thirty books have been delivered to the schools.

The following is contributed by the librarian of the Cambridge Public Library: —

The work of co-operation between the public library and the schools was furthered by the purchase in December, 1904, of a large supply of new books, both for the school delivery and for the children's room. The city council not only granted the petition of the trustees to be allowed to expend for this purpose $500, in addition to the other expenditures for that month, but later made more than good this amount by an increase of $1,000 in the annual appropriation, of which a fair proportion was to be expended in the service of the travelling libraries and the local stations.

A new plan of co-operation between the public library and the public schools was begun on Friday, January 5, 1906. The plan is to have the pupils of the ninth grade come to the library for special instruction in the methods there employed, and to visit all parts of the building.

During their visit the pupils listen to talks by the librarian and by the assistant who has special charge of the work with the children; they also visit all the departments of the library.

The librarian in his talk calls attention to the size and importance of the Cambridge library, as compared with other libraries of the country. He also gives the following statistics: the number of volumes, over seventy thousand; the total circulation, over two hundred twenty-eight thousand; and its increase during the past year of over thirty-six thousand, being a little more than half the total number of volumes. Added to the increase for 1904 of twenty thousand volumes, the total increase for the last two years has been fifty-six thousand volumes.

The librarian describes the various parts of the building and their uses, emphasizing the fact that the public library, as some one has said, "is the people's university," and that it is important that the pupils should learn how to use it.

The talk given by the children's librarian is in regard to the children's catalogue, and indexes to books. She selects for special illustration, cards of books on the United States, as being important in the work of the schools, and in this way, she shows the working of the card catalogue as a whole, bringing out the important distinctions of alphabetical arrangement under each sub-division of the general subject — United States history.

In the visit to the library, a special opportunity is given to see its working from the inside, especially to enter the stack where the main collection of books is placed, and the local room, from which go back and forth the books for school use and for the local stations. Attention is called to the relics and autographs in the Cambridge Memorial Room, and to the collection of books by Cambridge authors.

TRUANT OFFICERS.

Four officers are employed. The city is divided into four districts, and each officer has assigned to him the schools in one district. Among their duties are the following: to visit each school at least once a day, unless otherwise directed by the agent; to prevent children from loitering about the school premises; to notify the teachers of all cases of contagious and infectious diseases reported by the board of health; to attend the evening schools when so directed by the agent of the Board to assist in the preservation of order, and to visit places of business where children are employed, to see that none are employed unlawfully. They make all complaints for truancy, absenteeism, or school offences at the district court, attend the trials as witnesses, and take boys to the Middlesex County Truant School when they are sentenced.

By the Rules of the School Board the work of the truant officers is done under the supervision of the committee on schoolhouses; and under the direction of this committee, it is the duty of the agent of the Board to consider all cases of truancy, of persistent violation of the rules of the school, of juvenile vagrancy, of unlawful detention from school, of neglect by parents; and of any failure on the part of pupils or parents to comply with the Rules of the School Board or the public statutes relating to school attendance. It is also the duty of the agent to direct the officers to make complaints; to certify to the records in these cases when presented before the district court; and to exercise such supervision of the boys who are sent by the court from Cambridge to the truant school as may be allowed under the statutes.

The four truant officers, Messrs. Cabot, Carmichael, Porter and Riley, have continued to do excellent service as in the past. They have investigated eleven thousand nine hundred eighty-four cases of absence, eight hundred seventy-two of which proved to be truancy; of these, five hundred ninety-two were first offence; one hundred thirty-four, second or third offence; and one hundred forty-six, fifth offence or more.

They have entered complaints against twenty-eight boys. Twenty-one were sentenced for truancy, one as a school offender, and six were put on probation by the court. One of those sentenced for truancy has appealed to the higher court.

The parochial schools are co-operating more heartily with the truant officers to prevent the truancy of boys.

An arrangement has been made by the overseers of the poor whereby children, who are unable to attend school because of lack of shoes, can be supplied through the agent and the truant officers. This will prove a great blessing to many children for "no shoes" is the sad plea of many during the winter. The fund to pay for these shoes is from the "Bridge Fund," a private benefaction and in no way chargeable to the public purse. It is arranged that pupils in the parochial schools participate in the benefit of this arrangement.

The cigarette vice is the worst enemy with which we contend in the matter of truancy and it seems to have renewed its attacks during the recent months. Every boy taken to court bears the stamp of this curse in a greater or less degree. It makes them unreliable at home and at school and saps their physical, mental and moral powers.

At the beginning of the year we had thirty-two boys in the truant school; thirteen have been discharged, and twenty-two sentenced so that there are forty-one, averaging thirty-six, at the school from Cambridge.

The city has paid for the board, clothes and schooling of these boys, $1,888.26, or $52.45 each for the year, and nearly all of them have been better clothed and cared for than they have ever been in the homes from which they came.

The school census was taken by the officers and their assistants and shows that there are seven thousand eight hundred fifty-one boys and eight thousand seven girls in the city between the ages of five and fifteen years. This is an increase of one hundred eighty, — one hundred eight boys, and seventy-two girls over last year. The following is the summary of the school census for the year 1905: —

Number of children in the city between five and fifteen, boys, 7,851; girls, 8,007	15,858
Number in public schools between five and fifteen	12,327
Number in private schools between five and fifteen	3,213
Number not attending school between five and seven	145
Number not attending school between seven and fourteen	35
Number not attending school between fourteen and fifteen	138
Whole number not attending school between five and fifteen	318
Number in the city between five and six	1,718
Number in the city between seven and fourteen, boys, 5,560; girls, 5,628	11,188

The statistics of the private schools obtained by one of the truant officers, show that there are twelve private schools containing three hundred twenty pupils and receiving $39,630 tuition money. The five

parochial schools contain three thousand seven hundred eighty pupils, giving a total of four thousand one hundred pupils attending other than the public schools.

CONTAGIOUS DISEASES.

In 1894 the board of health, in accordance with the request of the school committee, appointed a physician, whose duty it is to examine all cases of contagious diseases reported, and to direct the exclusion from the schools of all pupils whose presence will, in his opinion, be a menace to the health of others. He reports his action on every case to the secretary of the school committee. The physician issues all certificates authorizing such children to return to school, as provided by Chapter 44, Section 6, of the Revised Laws.

As a further precaution against contagious diseases, the board of health established, February 26, 1896, a system of medical inspection of children in the schools. The city was divided into six districts, in each of which a physician was appointed to visit the schools in that district. The duties of these physicians as now defined are as follows: to visit the schools subject to their inspection during the morning session of every school day; to examine such children as are indicated to them by the teachers; to inspect such other children or such parts of the buildings as they deem necessary for the protection of the pupils, examining at least one school each day; to recommend to the principals to send home immediately any pupil whom they may suspect of having any infectious or contagious disease, and also, in cases of nearsightedness or deafness of pupils, to advise the parents to have the eyes or ears of such pupils examined. On the first of each month, the physicians send a report of their work to the board of health.

The principal of each school is required to read the following at the beginning of each term in all the rooms under his charge: —

"Any teacher or pupil who visits any apartment in which a person has been sick within two weeks, or which has been exposed within that time to contagion of smallpox, varioloid, diphtheria, or scarlet fever, shall not be allowed to attend school until the expiration of two weeks after such visit."

The truant officers have received notice through the office of the committee and reported to the several schools the following number of contagious diseases: —

Diphtheria	328
Scarlet Fever	144

TERMS, HOLIDAYS, AND SCHOOL HOURS.

The school year is divided into three terms,—the autumn, the winter, and the spring term.

The time for beginning the autumn and spring terms, and for closing the winter and spring terms, is fixed annually at the regular meeting of the committee in February. The autumn term ends December 23. The winter term begins on the first school day after that celebrated as New Year's Day.

The holidays are Saturdays; Thanksgiving Day, with the preceding day and the day following; the twenty-second of February; the nineteenth of April; Memorial Day; the seventeenth of June; and in addition to these, for the high schools, Commencement Day at Harvard University.

The sessions of the high schools begin at 8.30 A. M., and end at 1.30 P. M. The sessions of the Rindge Manual Training School begin at 8.30 A. M., and end at 2 P. M. These schools have a recess of half an hour in each session.

With the exception of the Russell School, the morning sessions of the grammar and primary schools begin at 9 and end at 11.45. The afternoon sessions begin at 2 and end at 4, except during the months of November, December, and January, when they begin at 1.30 and end at 3.30. The grammar schools have no outdoor recess. In the primary schools the principal may, at her discretion, substitute an outdoor recess for the period at present devoted to physical training. The sessions at the Russell School begin at 8.30 A. M, and end at 1.30 P. M.

The sessions of the kindergartens are from 9 A. M. to 11.50 A. M.

There are two terms of the evening schools. The first term begins on the second Monday of October, and continues every Monday, Wednesday and Friday evening, until the end of the week before Christmas. The second term begins on the first Monday, Wednesday or Friday evening after the opening of the day schools in January, and continues thirty-five evenings. Vacations and holidays are the same as in the day schools. The sessions begin at 7.30 P. M., and continue until 9.30 P. M

TEACHERS, APPOINTMENTS, RESIGNATIONS.

In December there were four hundred fifty-one teachers in the schools, including four unassigned teachers. Forty-three teachers have been appointed during the year, twenty have resigned, and one has died. Nine have been given leave of absence for rest or for some special reason, and six have been given leave of absence for study or travel under the following Rule of the School Board: —

"Any teacher who has served in the city for ten years may, on recommendation of the superintendent and vote of the Board, have leave of absence for one year for purposes of travel or study, and may receive one-third of his salary, provided the amount in no case shall exceed five hundred dollars."

Since the adoption of this rule in 1896, twenty-three teachers have been given leave of absence, — eleven from the high schools, six from the grammar schools, four from the primary schools and two from the kindergartens.

Four teachers were put on the unassigned list last June, in accordance with the following Rules of the School Board: —

"The superintendent shall prepare and submit to the Board annually in June, a list of teachers recommended by him for re-election.

"On this list he shall designate teachers who have taught in the Cambridge schools for twenty-five years or more and who have attained the age of sixty years, whose election he recommends, to serve in an assistant, temporary or substitute capacity, at a salary of three hundred fifty dollars in grammar or primary schools and of four hundred fifty dollars in the high schools."

Miss Sarah S. Wells, principal of the Corlett Kindergarten, died January 16, 1905. Mention of her death was made in the school report for 1904. In March, 1905, the following resolution was adopted by the Board: —

"The committee on kindergartens, to which was referred the report of the superintendent of schools on the death of Miss Sarah S. Wells, desires to express appreciation of the loving service which she rendered to the little ones committed to her care, and of the deep interest she took in their home life and training. In the death of Miss Wells the city has lost a teacher of rare qualities of mind and heart."

Miss Eliza M. Hussey, master's assistant in the Putnam School, resigned in June, but the committee desiring to retain her services, elected her as an assistant teacher in that school. She resigned from that position in November. Her first appointment to a position in the Putnam

School was in 1873, and she was made master's assistant in 1880. Miss Hussey was a teacher of experience when she came to Cambridge and her services became increasingly valuable from year to year. She did her work quietly but she did it effectively, and her influence for good pervaded the school.

QUALIFICATIONS OF TEACHERS.

A person to be eligible to the position of teacher in a kindergarten must have had a course in a high school, a course in a kindergarten normal school, a year's experience in teaching either in a kindergarten or a primary school, and must be able to play the piano; to be eligible to a position in a primary or grammar school, he must have had a course in a high school, a course in a normal school, and a year's experience in teaching; to be eligible to a position in a high school, except in the manual training department of the manual training school, he must be a college graduate. Equivalent preparation may be accepted. Preparation for the work of teaching as shown by years of study, and experience as shown by years of teaching, may be considered in fixing the salaries of teachers at the time of their nomination.

Two months after a teacher has been nominated to a position in a kindergarten or any school below the position of principal or master in a high or a grammar school, two experienced teachers who are not connected with the school in which the nominee is to serve, are designated by the superintendent to examine the teacher so nominated, while at work, and they report in writing to the superintendent; these reports, together with the testimonials and other papers relating to the qualifications and character of the teacher so examined and of all other nominees, are kept on file in the office of the superintendent and are open to inspection by members of the Board only.

The committee on teachers considers all nominations made by the superintendent. This committee confers with the superintendent, considers the reports of the examiners designated by him, makes further inquiry at discretion and reports to the Board.

Any nomination referred to the committee on teachers, unless confirmed, lapses at the expiration of six months, not counting the summer vacation. A person who has failed of confirmation is not to be nominated to a similar position within two years, except on the approval of the committee on teachers.

This committee inquires and reports to the Board in executive session as to the success of any teacher in the employment of the city when so requested by any member of the Board or by the superintendent, and no teacher under such inquiry receives the regular increase of salary, except on the recommendation of this committee.

Under the direction of the superintendent, teachers may visit other schools to observe the discipline and instruction. They may be required to attend teachers' meetings or courses of instruction in methods of teaching for one hour a week. Such meetings may be held on Saturday mornings during term time or at such other time, not in school hours, as the superintendent may direct. Meetings in addition to those indicated above may be held by the superintendent or may be called by him, on request of directors in special subjects.

SALARIES OF TEACHERS AND SCHOOL OFFICERS.

Latin School and English High School.

Head Masters	$3,000 00
Masters	2,000 00
Masters' Assistants	1,200 00
Teachers, first year	700 00
with an annual increase of $50 until $950, the maximum, is reached.	
Assistant Teachers, first year	500 00
" " second year and each succeeding year	600 00

Rindge Manual Training School.

Head Master	$3,000 00
Master's Assistant	1,300 00
Teachers' salaries range from $700 to $1,500.	

Wellington Training School.

Master	$2,800 00
Supervising Teachers (three) first year	900 00
" " second year and each succeeding year	1,000 00
Master's Assistant, first year	800 00
" " second year and each succeeding year	900 00
Teachers of the eighth grade	700 00
Teachers of the seventh grade (one year's experience)	450 00
Teachers of the other grades	250 00

Grammar and Primary Schools and Kindergartens.

Masters of grammar schools, maximum	$2,300 00
Submasters, first year	1,000 00
with an annual increase of $100 until $1,400, the maximum, is reached.	
Masters' Assistants, first year	800 00
" " second year and each succeeding year	900 00
Teachers of the ninth grade, first year	750 00
" " " " second year and each succeeding year	800 00
Special Teachers in grammar schools, first year	700 00
" " " " " second year and each succeeding year	750 00
Principals of primary schools, first year	700 00
" " " " second year and each succeeding year	750 00
with five dollars additional for each room under her supervision.	
Teachers of grammar and primary schools and of kindergartens, first year	450 00
with an annual increase of $50 until $700 is reached.	

Assistant teachers, that is, teachers not in charge of a room, are paid $450 the first year, $500 the second, and $550 the third and each succeeding year; and, in the case of assistants in the kindergartens, $600 for the fourth and each succeeding year.

Substitutes.

The pay of a substitute teacher in a high school, who is employed temporarily, is $2.50 a day; if employed one month or more, it is at the rate of $500, $600 or $700 a year, the sum to be determined by the superintendent, who shall consider the experience of the teacher and the position to be filled, in fixing the sum.

The pay of a teacher who is employed temporarily as a substitute in a grammar school, a primary school, or a kindergarten, is $1.00 a session; if employed one month or more, it is at the rate of $450 a year.

Special Teachers and Officers.

Director of Music	$2,000 00
Assistant Teacher in Music	850 00
Director of Drawing	2,000 00
Assistant Teacher in Drawing	800 00
Director of Nature Study (three-fifths time)	1,000 00
Director of Physical Training	950 00
Instructor in Physical Training in the High Schools	850 00
Director of Sewing	700 00
Teachers of Sewing	600 00
Superintendent of Schools	3,500 00
Supervisor of Primary Schools	1,300 00
Agent of the School Committee	2,100 00
Truant Officers (four are employed)	1,000 00
Secretary of the School Committee	400 00
Page of the School Committee	25 00
Secretary and Librarian of the Latin School	600 00
Secretary and Librarian of the English High School	600 00
Secretary and Librarian of the Rindge Manual Training School	600 00

Evening Schools.

Principal of Mechanical Drawing School, per evening	$4 00
Principal of High School " "	4 00
Principal of Elementary Schools " "	3 00
Teachers in Drawing Schools " "	3 00
Teachers in High School " "	2 00
Teachers in Elementary Schools " "	1 50

CONCLUSION.

The preceding pages give a systematic account of the manner in which the Cambridge schools are conducted.

Beginning with the kindergartens and ending with the three high schools, Cambridge has a notable equipment for the work of popular education.

The Rindge Manual Training School has greatly increased facilities for academic work now that the whole of the Washington building is used for this school.

The new Houghton School on Putnam Avenue adds another substantial building to the list of Cambridge schools. In this building there are all the grades of the common schools and also a kindergarten.

The addition to the Roberts School has relieved crowded rooms, and has made possible a better adjustment of work.

There have been many occasions on which the adult members of the communities about the schools have assembled in the halls or in the schoolrooms to be instructed by lectures, to be entertained by music, or to see and to hear the work of the children. All these meetings have helped to a better understanding of the spirit of the schools.

The mothers' meetings, which are held regularly in connection with the kindergartens, have been supplemented by meetings for the parents of children who are in the grades. These, too, have contributed to that better understanding which unites home and school in efforts for the good of the children.

Gifts of works of art for the adornment of rooms and halls have been made.

The value of the schools in any community is not measured by the cost of the buildings and the equipment, by the quantity of the books and supplies furnished, by the works of art by which rooms and halls are made attractive, nor even by the course of study that is pursued, but by the quality of the life that teachers and pupils are living together in the schools.

The good life together cannot be quite the same in any two schoolrooms, for individuality in teacher and in pupils must have the largest expression consistent with regard for the general good.

In the school in which teacher and pupils are living this good life together the work of the pupils is not viewed by them as task, but as privilege. The quality of the leadership determines the spirit of those who are led, and the good teacher in the power of the spirit of good will works with a company of young people who are happy because their work is done with earnestness and with success.

Ray Greene Huling, head master of the English High School, has written the following in memory of his predecessor, Frank A. Hill, the late secretary of the State Board of Education.

"He was uniformly successful and inspiring, always commanding the respect, love and loyalty of his pupils. Former pupils tenderly recall how clearly he detected the possibilities in them which they themselves failed to see and by power of encouragement actually developed in them fine and enduring qualities of heart and mind."

This is the supreme privilege of the teacher "by the power of encouragement to develop in pupils fine and enduring qualities of heart and mind." To such service all who teach are called.

In closing I thank you, the members of the school committee of Cambridge, and all, who are in any way connected with the schools, for the great kindness with which I have been received.

Respectfully submitted,

WILLIAM C. BATES,
Superintendent of Public Schools.

In School Committee, February 15, 1906.

Ordered, That the report of the superintendent as read and outlined by him be accepted and adopted as the annual report of the school committee for 1905, and that the secretary be authorized to append the names of the members of the school committee thereto.

SANFORD B. HUBBARD,
Secretary.

Members of the School Committee for 1905.

AUGUSTINE J. DALY, *Chairman ex officio.*

WARREN P. ADAMS.
GEORGE W. BICKNELL.
CAROLYN P. CHASE.
EDWIN L. CHENEY.
EDWARD J. KRONAN.
SHERMAN R. LANCASTER.
JAMES A. LEW.
MARY E. MITCHELL.
WILLIAM TAGGARD PIPER.
J. HENRY RUSSELL.
FRANK E. SANDS.
JOSEPH E. SHARKEY.
JOHN E. SOMERS.
* CHARLES H. THURSTON.
ROBERT WALKER.

* Resigned, December 21, 1905.

APPENDIX

ORDINANCES

PASSED BETWEEN APRIL 5, 1905, AND FEBRUARY 21, 1906.

An Ordinance in Amendment of an Ordinance Entitled "Fire."

Be it ordained by the City Council of the City of Cambridge as follows: —

Chapter 11 of the Revised Ordinances of 1892, amended to November 8, 1899, and as further amended by ordinances approved April 10, 1901, and December 31, 1901, is hereby amended by adding at the end of Section 9 thereof, amended as aforesaid, the following: The permanent force of the Fire Department shall be increased by seven permanent men and the call force by four call members, who shall be assigned as the Chief Engineer of the Department may direct. [*Approved March* 30, 1905.

An Ordinance in Amendment of an Ordinance Entitled "Duties and Salaries" Relating to the Salary of the Inspector of Milk and Vinegar.

Be it ordained by the City Council of the City of Cambridge as follows: —

Section 30 of Chapter 28 of the Revised Ordinances of 1892, as amended to November 8, 1899, is hereby amended in the line relating to the salary of the Inspector of Milk and Vinegar, by striking out the figures $900.00 and inserting the figures $1,000.00 in place thereof. [*Approved April* 5, 1905.

An Ordinance in Amendment of an Ordinance Entitled "Duties and Salaries."

Be it ordained by the City Council of the City of Cambridge as follows: —

Section 30 of Chapter 28 of the Revised Ordinances of 1902, as amended by an ordinance approved January 3, 1901, is hereby further amended as follows: —

In the line relating to the salary of the Sealer of Weights and Measures, by striking out the figures $1,000.00 and inserting the figures $1,200.00.

In the line relating to the salary of the Deputy Sealer of Weights and Measures, by striking out the figures $750.00 and inserting the figures $900.00.

This ordinance shall take effect as of the first day of April, 1905. [*Approved April* 5, 1905.

An Ordinance in Amendment of an Ordinance Entitled "Duties and Salaries."

Be it ordained by the City Council of the City of Cambridge as follows: —

Section 30 of Chapter 28 of the Revised Ordinances of 1902, as amended to November 8, 1899, is hereby amended in the sixth line relating to the City Clerk, by striking out the figures $3,000.00 and inserting the figures $3,300.00.

As amended this line will read as follows: —

City Clerk $3,300.00

[*Approved December* 22, 1905.

MAYORS OF THE CITY OF CAMBRIDGE

(From 1846 to 1906 Inclusive.)

James D. Green	From May,	1846,	to April,	1848
Sydney Willard	" April,	1848,	to April,	1851
George Stevens	" April,	1851,	to April,	1853
James D. Green	" April,	1853,	to April,	1854
*Abraham Edwards	" April,	1854,	to January,	1855
Zebina L. Raymond	" January,	1855,	to January,	1856
John Sargent	" January,	1856,	to January,	1860
†James D. Green	" January,	1860,	to July 24,	1861
‡Charles Theo. Russell	" July 31,	1861,	to January,	1863
George C. Richardson	" January,	1863,	to January,	1864
Zebina L. Raymond	" January,	1864,	to January,	1865
J. Warren Merrill	" January,	1865,	to January,	1867
Ezra Parmenter	" January,	1866,	to January,	1868
Charles H. Saunders	" January,	1868,	to January,	1870
Hamlin R. Harding	" January,	1870,	to January,	1872
Henry O. Houghton	" January,	1872,	to January,	1873
Isaac Bradford	" January,	1873,	to January,	1877
Frank A. Allen	" January,	1877,	to January,	1878
Samuel L. Montague	" January,	1878,	to January,	1880
James M. W. Hall	" January,	1880,	to January,	1881
James A. Fox	" January,	1881,	to January,	1885
William E. Russell	" January,	1885,	to January,	1889
Henry H. Gilmore	" January,	1889,	to January,	1891
Alpheus B. Alger	" January,	1891,	to January,	1893
William A. Bancroft	" January,	1893,	to January,	1897
Alvin F. Sortwell	" January,	1897,	to January,	1899
Edgar R. Champlin	" January,	1899,	to January,	1901
David T. Dickinson	" January,	1901,	to January,	1902
John H. H. McNamee	" January,	1902,	to January,	1904
Augustine J. Daly	" January,	1904,	to January,	1906
Charles H. Thurston	" January,	1906,		

*Municipal year changed. †Resigned. ‡First elected by the City Council.

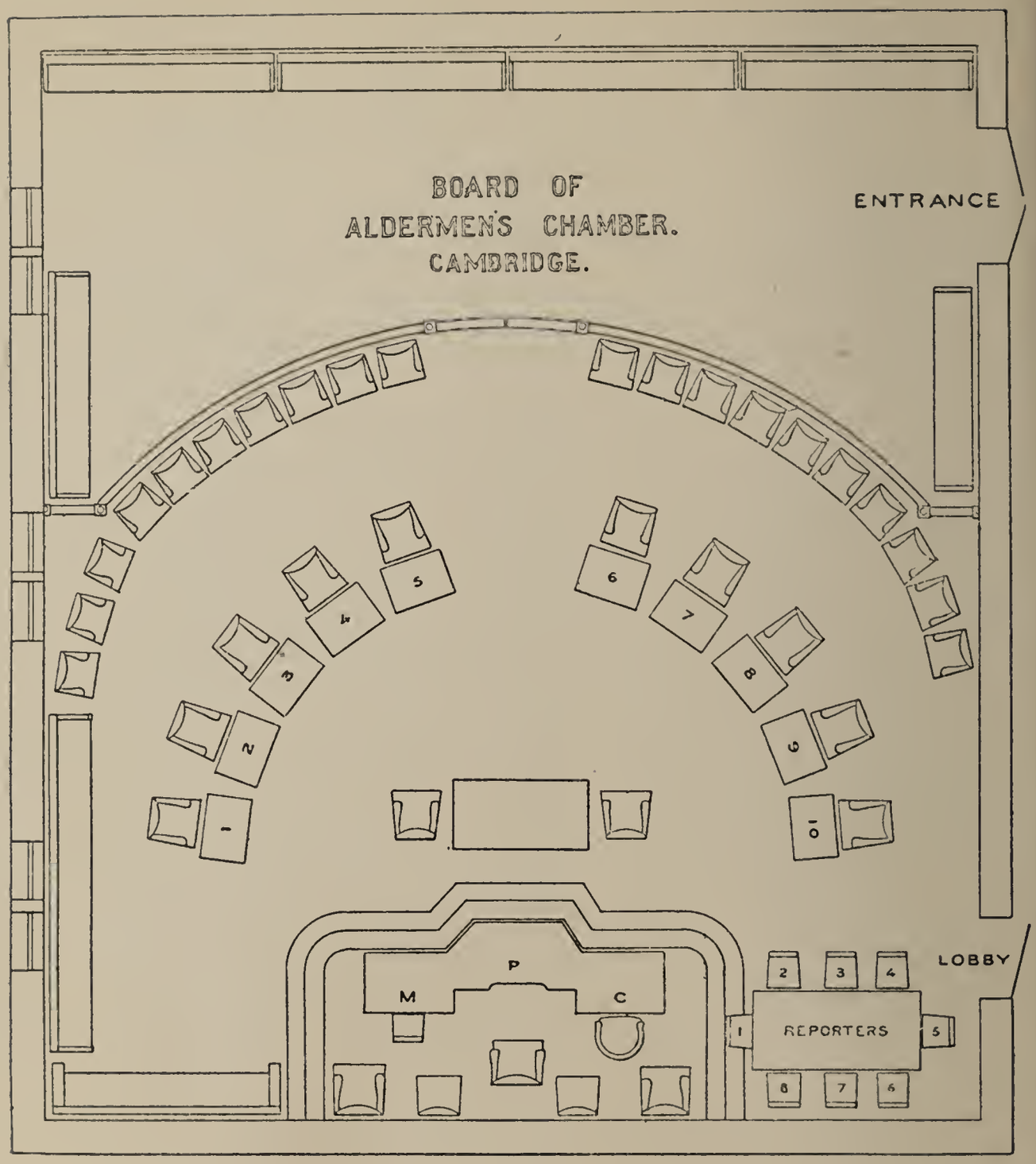
PRESIDENTS OF THE BOARD OF ALDERMEN

1888	Edward W. Hincks.
1889	John H. Corcoran.
1890	Alvin F. Sortwell
1891	William A. Bancroft.
1892	William A. Bancroft.
1893	John R. Fairbairn.
1894	John G. Thorogood.
1895	John R. Fairbairn.
1896	John R. Fairbairn.
1897	Russell Bradford.
1898	Russell Bradford.
1899	Walter C. Wardwell.
1900	Walter C. Wardwell.
1901	George E. Saunders.
1902	James F. Aylward.
1903	*John W. Coveney. / Timothy W. Good.
1904	John W. Coveney.
1905	J. Edward Barry.
1906	Charles H. Lake.

*John W. Coveney resigned March 10, 1903, and Timothy W. Good elected to the vacancy.

PRESIDENTS OF THE COMMON COUNCIL

1846 Isaac Livermore.
1847 John Sargent.
1848 John C. Dodge.
1849 Samuel P. Heywood.
1850 Samuel P. Heywood.
1851 John S. Ladd.
1852 John Sargent.
1853 John Sargent.
1854 John C. Dodge.
1855 Alanson Bigelow.
1856 Ezra Ripley. Resigned January 31.
1856 George S. Saunders. Elected January 31.
1857 George S. Saunders.
1858 James C. Fisk.
1859 James C. Fisk.
1860 Hamlin R. Harding.
1861 Hamlin R. Harding.
1862 Jared Shepard. Resigned September 17.
1862 Knowlton S. Chaffee. Elected September 24.
1863 George S. Saunders.
1864 George S. Saunders.
1865 John S. March.
1866 John S. March.
1867 Marshall T. Bigelow.
1868 Knowlton S. Chaffee. Resigned February 4.
1868 Henry W. Muzzey. Elected February 4.
1869 Henry W. Muzzey.
1870 Joseph H. Converse.
1871 Joseph H. Converse.
1872 Alvaro Blodgett.
1873 Alvaro Blodgett. Resigned June 17.
1873 Francis H. Whitman. Elected June 17.
1874 George F. Piper.
1875 George F. Piper.
1876 Frank A. Allen.
1877 Perez G. Porter.
1878 George S. Saunders.
1879 George S. Saunders.
1880 Charles Walker.
1881 Charles Walker.
1882 George H. Howard.
1883 George H. Howard.
1884 George H. Howard.
1885 Cornelius G. H. Bennink.
1886 John H. Corcoran.
1887 John H. Corcoran.
1888 Alvin F. Sortwell.
1889 Edward A. Bingham.
1890 Edward A. Bingham.
1891 Edward C. Wheeler.
1892 Herbert A. Chase.
1893 J. Henry Russell.
1894 Charles M. Conant.
1895 John L. Odiorne.
1896 John L. Odiorne.
1897 Albert S. Apsey.
1898 George E. Saunders.
1899 William F. Brooks.
1900 John D. Merrill.
1901 John D. Merrill.
1902 Thorndike Spalding.
1903 Edward E. Clark.
1904 Harry N. Stearns.
1905 George A. Giles.
1906 George A. Giles.



KEY TO BOARD OF ALDERMEN'S CHAMBER
CAMBRIDGE, 1906

P — Charles H. Lake, *President.*

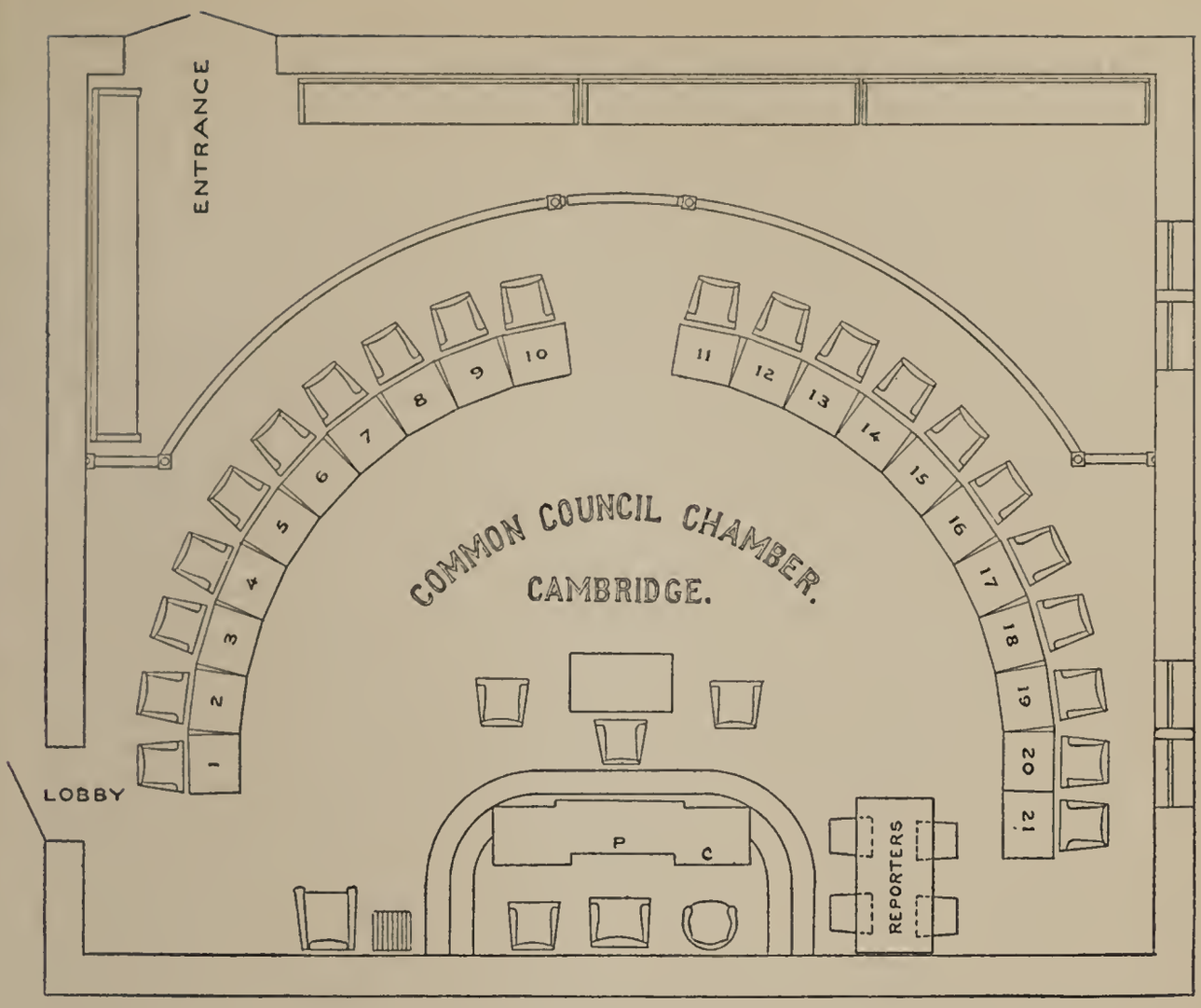
1	Alderman	Beale.	6	Alderman	Henderson.
2	"	Allen.	7	"	Brownell.
3	"	Clary.	8	"	Blanchard.
4	"	Andrew.	9	"	Penniman.
5	"	Dow.	10	"	Flynn.

C — Edward J. Brandon, *City Clerk.*

M — Frank T. Evans, *City Messenger.*

Reporters

1 John B. Whoriskey, Boston Globe.
2 J. Lee Robinson, Cambridge Tribune.
3 James H. Cox, Cambridge Times.
4 James W. Bean, Boston Herald and Cambridge Chronicle.
5 Louis F. Conant, Boston Advertiser, Record and Post.
6 Wm. P. Nickerson, Cambridge Sentinel.
7 John Queen, Boston Journal.



KEY TO COMMON COUNCIL CHAMBER
CAMBRIDGE, 1906

P—George A. Giles, *President.*

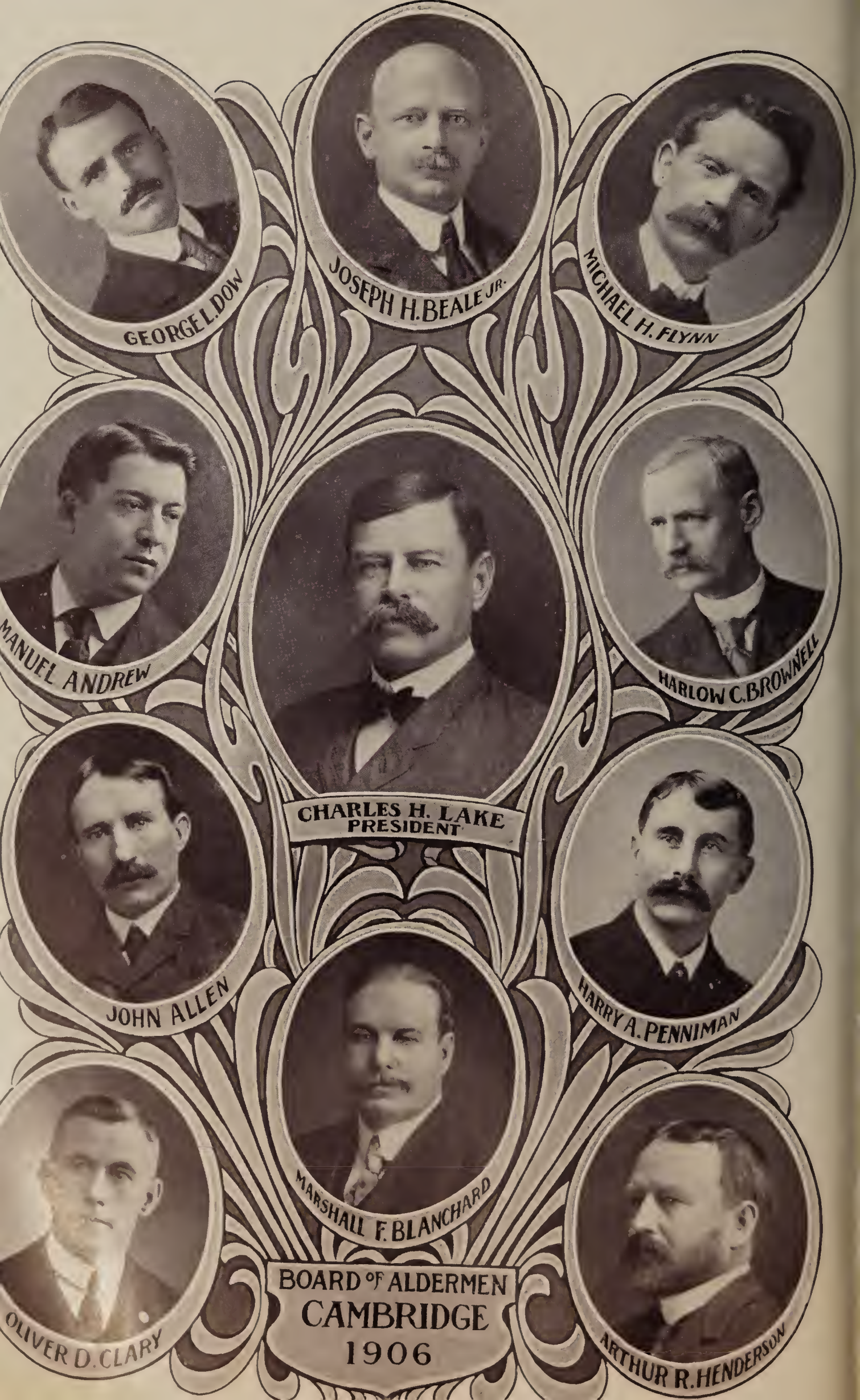
1	Councilman	Hogan.	11	Councilman	Wood.
2	"	Black.	12	"	Stephens.
3	"	Casey.	13	"	Stetson.
4	"	Hammond.	14	"	Lawson.
5	"	Dunn.	15	"	O'Connell.
6	"	Crane.	16	"	Sullivan.
7	"	Chase.	17	"	Norton.
8	"	Hurley.	18	"	Hunter.
9	"	Quilty.	19	"	Cotter.
10	"	Dodge.	20	"	Chamberlain.

21 Councilman Winslow.

C—Edward A. Counihan, *Clerk.* William E. McAnaul, *Page.*

Reporters

Philip R. Ammidon, Cambridge Chronicle. Henry J. Mahoney, Cambridge Sentinel.


GEORGE L. DOW
JOSEPH H. BEALE JR.
MICHAEL H. FLYNN
MANUEL ANDREW
CHARLES H. LAKE
PRESIDENT
HARLOW C. BROWNELL
JOHN ALLEN
HARRY A. PENNIMAN
MARSHALL F. BLANCHARD
OLIVER D. CLARY
ARTHUR R. HENDERSON
BOARD OF ALDERMEN
CAMBRIDGE
1906

GOVERNMENT OF THE CITY OF CAMBRIDGE, 1906

Mayor

CHARLES H. THURSTON, 16 Trowbridge Street.

Board of Aldermen

President.

CHARLES H. LAKE.

John Allen	42 Second Street	Ward 1
Manuel Andrew	46 Third Street	" 1
Joseph H. Beale, Jr.	29 Chauncy Street	" 9
Marshall F. Blanchard	159 Upland Road	" 10
Harlow C. Brownell	24 Fairfield Street	" 11
Oliver D. Clary	103 Otis Street	" 2
George L. Dow	367 Harvard Street	" 8
Michael H. Flynn	162 Columbia Street	" 4
Arthur R. Henderson	318 Franklin Street	" 7
Charles H. Lake	21 Ellery Street	" 8
Harry A. Penniman	356 Pearl Street	" 6

Clerk.

Edward J. Brandon.

Messenger.

Frank T. Evans.

Regular meetings on Tuesday Evenings at 8 o'clock.

Common Council

President.

GEORGE A. GILES.

James F. Black	145 Willow Street	Ward 3
Joseph M. Casey	5 Cedar Square	" 11
Albert H. Chamberlain	20 Ellsworth Avenue	" 5
Herbert M. Chase	21 Ellsworth Avenue	" 5
John M. Cotter	107 Otis Street	" 2
Russell D. Crane	162 Lake View Avenue	" 9
Winslow Herbert Dodge	132 Columbia Street	" 4
Alexander Dunn	19 Perry Street	" 7
George A. Giles	8 Perry Street	" 6
Franklin T. Hammond	11 Kirkland Road	" 8
William M. Hogan	146A Spring Street	" 2
Robert W. Hunter	222 Upland Road	" 10
Dennis F. Hurley	22 Marion Street	" 3
John V. W. Lawson	176 Pleasant Street	" 7
Peter J. Norton	445 Main Street	" 4
Daniel F. O'Connell	199 Vine Street	" 1
Joseph Pierce Quilty	19 Woodbridge Street	" 11
George Stephens	53 Ellery Street	" 8
Henry C. Stetson	128 Brattle Street	" 9
Joseph A. Sullivan	155 Bridge Street	" 1
Henry J. Winslow	152 Magazine Street	" 6
Russell A. Wood	1691 Massachusetts Ave.	" 10

Clerk.

Edward A. Counihan.

Page.

William E. McAnaul.

Regular Meetings on Tuesday Evenings at 8 o'clock.

JOHN M. COTTER
HERBERT M. CHASE
HENRY J. WINSLOW
WILLIAM M. HOGAN
GEORGE A. GILES
PRESIDENT
RUSSELL D. CRANE
RUSSELL A. WOOD
DENNIS F. HURLEY
NKLIN T. HAMMOND
JOHN V. W. LAWSON
COMMON COUNCIL
CAMBRIDGE
1906

JOSEPH PIERCE QUILTY
ROBERT W. HUNTER
JOSEPH A. SULLIVAN
WINSLOW HERBERT DODGE
JOSEPH M. CASEY
JAMES F. BLACK
ALBERT H. CHAMBERLAIN
HENRY C. STETSON
GEORGE STEPHENS
PETER J. NORTON
COMMON COUNCIL
CAMBRIDGE
1906
DANIEL F. O'CONNELL
ALEXANDER DUNN

COMMITTEES OF THE CITY COUNCIL

JOINT STANDING COMMITTEES.

Accounts. Aldermen Penniman and Henderson; Councilmen Cotter, Casey and Wood.

Assessors' Department. Aldermen Henderson and Dow; Councilmen O'Connell and Norton.

City Engineering. Aldermen Brownell and Penniman; Councilmen Sullivan, Hunter and Dodge.

City Home. Aldermen Allen and Brownell; Councilmen Stephens, Chamberlain and Norton.

Claims. President Lake, Aldermen Brownell, Andrew and Beale; President Giles, Councilmen Winslow, Hunter, Wood, Lawson and Cotter.

Finance. President Lake, Aldermen Dow, Allen and Henderson; President Giles, Councilmen Stetson, Chase, Crane, Stephens and Hogan.

Health. Aldermen Allen and Blanchard; Councilmen Dunn, Dodge and Hurley.

Highways. Aldermen Blanchard, Clary and Andrew; Councilmen Stephens, Stetson, Dunn and Quilty.

Legislative Matters. President Lake, Aldermen Beale, Brownell and Flynn; President Giles, Councilmen Wood, Hunter, Crane, Hammond and Black.

Ordinances. Aldermen Penniman and Henderson; Councilmen Hammond, Stetson and Chamberlain.

Parks. Aldermen Dow and Penniman; Councilmen Lawson, Dodge and Sullivan.

Printing. Aldermen Brownell and Clary; Councilmen Casey, Cotter and Black.

Fire Department. Aldermen Penniman and Clary; Councilmen Dodge, Hammond and Sullivan.

Public Property. Aldermen Henderson and Penniman; Councilmen Chamberlain, Winslow and Black.

Public Instruction. Aldermen Beale and Allen; Councilmen Hogan, Quilty and Winslow.

Rules and Orders. Aldermen Henderson and Andrew; Councilmen Norton, Hogan and Lawson.

Water Supply. Aldermen Dow and Beale; Councilmen Crane, Chase and Hurley.

Wires and Lamps. Aldermen Allen and Brownell; Councilmen Chase, Dunn and Casey.

STANDING COMMITTEES OF THE BOARD OF ALDERMEN.

Bonds. Aldermen Henderson, Beale and Dow.

Cemeteries. Aldermen Blanchard, Dow and Flynn.

Claims. President Lake, Aldermen Brownell, Andrew and Beale.

Elections and Returns. Aldermen Clary and Blanchard.

Fire Department. Aldermen Penniman, Clary and Brownell.

Highways. Aldermen Blanchard, Clary and Andrew.

Licenses. Aldermen Beale, Blanchard and Henderson.

Parks. Aldermen Dow and Penniman.

Police. Aldermen Brownell, Beale and Blanchard.

Sewers. Aldermen Henderson, Clary and Dow.

Soldiers' Aid. President Lake, Aldermen Allen, Clary, Penniman and Andrew.

Street Railways. Aldermen Blanchard and Beale.

JOINT SPECIAL COMMITTEES

Matters Referred from Last City Council. Aldermen Henderson, Andrew and Flynn; Councilmen Black, Hunter, Hurley, Lawson and O'Connell.

Mayor's Inaugural Address. Aldermen Allen and Flynn; Councilmen Hunter, Winslow and Black.

New Cambridge Bridge. Aldermen Blanchard and Henderson; Councilmen Dunn, Chamberlain and Sullivan.

Amendments to City Charter. President Lake, Aldermen Beale, Dow and Allen; President Giles, Councilmen Chase, Hammond, Dunn, Stetson and Quilty.

Rapid Transit. President Lake, Aldermen Penniman and Clary; President Giles, Councilmen Crane, Stephens and O'Connell.

SPECIAL COMMITTEES OF THE BOARD OF ALDERMEN.

Matters Referred from Last Board of Aldermen. Aldermen Clary, Allen and Flynn.

Jury List. Aldermen Penniman and Flynn.

STANDING COMMITTEES OF THE COMMON COUNCIL.

Bills in the Second Reading. Councilmen Hurley, O'Connell and Norton.

Elections and Returns. Councilmen Quilty, Hogan and Winslow.

Enrolled Ordinances. Councilmen Wood, Cotter and Casey.

COMMITTEE APPOINTMENTS OF MEMBERS OF THE CITY COUNCIL.

President Lake. Claims, Finance, Legislative Matters, Soldiers' Aid, Amendments to City Charter, Rapid Transit.

Alderman Allen. City Home, Finance, Health, Public Instruction, Wires and Lamps, Soldiers' Aid, Mayor's Inaugural Address, Amendments to City Charter, Matters Referred from last Board of Aldermen.

Alderman Andrew. Claims, Highways, Rules and Orders, Soldiers' Aid, Matters Referred from last City Council.

Alderman Beale. Claims, Legislative Matters, Public Instruction, Water Supply, Bonds, Licenses, Police, Street Railways, Amendments to City Charter.

Alderman Blanchard. Health, Highways, Cemeteries, Elections and Returns, Licenses, Police, Street Railways, New Cambridge Bridge.

Alderman Brownell. City Engineering, City Home, Claims, Legislative Matters, Printing, Wires and Lamps, Fire Department (Standing) Police.

Alderman Clary. Highways, Printing, Fire Department, Elections and Returns, Sewers, Soldiers' Aid, Rapid Transit, Matters Referred from last Board of Aldermen.

Alderman Dow. Assessors' Department, Finance, Parks, Water Supply, Bonds, Cemeteries, Sewers, Amendments to City Charter.

Alderman Flynn. Legislative Matters, Cemeteries, Matters Referred from last City Council, Mayor's Inaugural Address, Matters Referred from last Board of Aldermen, Jury List.

Alderman Henderson. Accounts, Assessors' Department, Finance, Ordinances, Public Property, Rules and Orders, Bonds, Licenses, Sewers, Matters Referred from last City Council, New Cambridge Bridge.

Alderman Penniman. Accounts, City Engineering, Ordinances, Parks, Fire Department, Public Property, Soldiers' Aid, Rapid Transit, Jury List.

President Giles. Claims, Finance, Legislative Matters, Amendments to City Charter, Rapid Transit.

Councilman Black. Legislative Matters, Printing, Public Property, Matters Referred from last City Council, Mayor's Inaugural Address.

Councilman Casey. Accounts, Printing, Wires and Lamps, Enrolled Ordinances.

Councilman Chamberlain. City Home, Ordinances, Public Property, New Cambridge Bridge.

Councilman Chase. Finance, Water Supply, Wires and Lamps, Amendments to City Charter.

Councilman Cotter. Accounts, Claims, Printing, Enrolled Ordinances.

Councilman Crane. Finance, Legislative Matters, Water Supply, Rapid Transit.

Councilman Dodge. City Engineering, Health, Parks, Fire Department.

Councilman Dunn. Health, Highways, Wires and Lamps, New Cambridge Bridge, Amendments to City Charter.

Councilman Hammond. Legislative Matters, Ordinances, Fire Department, Amendments to City Charter.

Councilman Hogan. Finance, Public Instruction, Rules and Orders, Elections and Returns.

Councilman Hunter. City Engineering, Claims, Legislative Matters, Matters Referred from last City Council, Mayor's Inaugural Address.

Councilman Hurley. Health, Water Supply, Matters Referred from last City Council, Bills in the Second Reading.

Councilman Lawson. Claims, Parks, Rules and Orders, Matters Referred from last City Council.

Councilman Norton. Assessors' Department, City Home, Rules and Orders, Bills in the Second Reading.

Councilman O'Connell. Assessors' Department, Matters Referred from last City Council, Rapid Transit, Bills in the Second Reading.

Councilman Quilty. Highways, Public Instruction, Amendments to City Charter, Elections and Returns.

Councilman Stephens. City Home, Finance, Highways, Rapid Transit.

Councilman Stetson. Finance, Highways, Ordinances, Amendments to City Charter.

Councilman Sullivan. City Engineering, Parks, Fire Department, New Cambridge Bridge.

Councilman Winslow. Claims, Public Property, Public Instruction, Mayor's Inaugural Address, Elections and Returns.

Councilman Wood. Accounts, Claims, Legislative Matters, Enrolled Ordinances.

DEPARTMENTS AND BOARDS

EXECUTIVE DEPARTMENT.

CHARLES H. THURSTON . . . . . *Mayor.*
Edward A. Counihan . . . . *Mayor's Clerk.*
Office Hours: 8 A.M. to 4 P.M.
Office, Rooms 17 and 18, City Hall. Telephone 463.

CITY CLERK DEPARTMENT.

EDWARD J. BRANDON . . . . . *City Clerk.*
Albert M. Pear . . . . . *Assistant City Clerk.*
Office Hours: 8 A.M. to 4 P.M.
Office, Rooms 8 and 9, City Hall. Telephone 419.

TREASURY DEPARTMENT.

WILLIAM W. DALLINGER, *City Treasurer and Collector of Taxes.*
Office Hours: 8 A.M. to 2 P.M.
Office, Rooms 3 and 4, City Hall. Telephone 602.

AUDITING DEPARTMENT.

HARRY T. UPHAM . . . . . *City Auditor.*
Office Hours: 8 A.M. to 4 P.M.
Office, Rooms 1 and 2, City Hall. Telephone 1001.

CLERK OF COMMITTEES DEPARTMENT.

JOHN McDUFFIE . . . . . *Clerk of Committees.*
Eben W. Pike . . . . . *Assistant.*
Office Hours: 8 A.M. to 4 P.M.
Office, Room 16, City Hall. Telephone 818.

CITY MESSENGER DEPARTMENT.

FRANK T. EVANS . . . . . *City Messenger.*
William E. McAnaul . . . . *Assistant.*
Office Hours: 8 A.M to 5 P. M.
Office, Room 20, City Hall. Telephone 1900.

LAW DEPARTMENT.

GILBERT A. A. PEVEY . . . . . *City Solicitor.*

Office Hours (at City Hall): 8 A.M. to 12 M.

Office, Room 17, City Hall. Telephone 463.

Boston Office, 22 Pemberton Square. Telephone 1071 Haymarket.

ENGINEERING DEPARTMENT.

LEWIS M. HASTINGS . . . . . *City Engineer.*

Theodore L. Pike . . . . . *Supt. of Sewers.*

Office Hours: 8 A.M to 5 P. M.

Office, Rooms 30 and 31, City Hall. Telephone 471.

FIRE DEPARTMENT.

NATHANIEL W. BUNKER . . . . . *Chief.*

James M. Casey . . . . . *Assistant Chief.*

Office Hour: 9 to 10 A.M.

Office, Room 28, City Hall. Telephone 125-1900.

INSPECTION, ETC., OF BUILDINGS DEPARTMENT.

THOMAS F. TRACY, *Supt. of Public Buildings and Inspector of Buildings.*

Office Hours: 8 A.M. to 4 P. M.

Office, Room 28, City Hall. Telephone 125.

HEALTH DEPARTMENT — BOARD OF HEALTH.

CHARLES T. WEEKS, M. D. . . . *Chairman.*

Term, three years.

Charles T. Weeks, M. D. . . . . Term expires 1907.

——————— . . . . . Term expires 1908.

J. Porter Russell . . . . . Term expires 1909.

James B. Soper . . . . . *Clerk.*

Edwin Farnham, M. D. . . . . *Medical Inspector.*

Joseph L. Johnson . . . . . *Inspector of Provisions*

Office Hours: 8 A.M. to 4 P.M.

Rooms 25 and 26, City Hall. Telephone 345.

POLICE DEPARTMENT.

FRED B. PULLEN . . . . . *Chief of Police.*

Office Hours: 8 A.M. to 6 P.M.

Office at Central Square Building. Telephone 423.

STREET DEPARTMENT.

GEORGE M. CLUKAS . . . . . *Sup't of Streets.*

Henry P. Fielding . . . . . *Clerk.*

Office Hours: 8 A.M. to 4 P.M.

Office, Room 12, City Hall. Telephone 435.

INSPECTOR OF MILK AND VINEGAR.

ALBERT P. NORRIS, M. D. . . *Inspector of Milk and Vinegar.*

Office Hours: 8 to 11 A.M.

Office, Room 27, City Hall. Telephone 345.

ASSESSORS' DEPARTMENT — BOARD OF ASSESSORS.

Term, three years.

JEREMIAH F. DONOVAN	Term expires 1906.
DANIEL B. SHAUGHNESSY, *Chairman* .	Term expires 1907.
TIMOTHY W. GOOD, *Secretary* . . .	Term expires 1908.

Office Hours: 8 A.M. to 4 P.M.

Office, Rooms 21 and 22, City Hall. Telephone 244.

CITY ELECTRICAL DEPARTMENT.

TIMOTHY C. O'HEARN . . . . . *City Electrician.*

Office Hours: 8 A.M. to 4 P.M.

Office, Room 28, City Hall. Telephone 125.

Central Fire Alarm Office. Telephone 363.

INSPECTION OF ANIMALS DEPARTMENT.

CHARLES E. HADCOCK, M.D.V., . . *Inspector of Animals.*

Residence, 25 Dana Street. Telephone 662.

(No office or hours.)

BRIDGE DEPARTMENT.

GEORGE M. CLUKAS, *Bridge Commissioner and Harbor Master.*

Office Hours: 8 A.M. to 4 P.M.

Office, Room 12, City Hall. Telephone 435.

SEALER OF WEIGHTS AND MEASURES DEPARTMENT.

George H. Dinan . . . . . *Sealer.*
John C. Connors . . . . . *Deputy Sealer.*

Office Hours: { Fridays, 8 A.M. to 4 P.M.
Saturdays, 8 A.M. to 12 M.

Office, Brattle Square Building. Telephone 35.

CITY PHYSICIAN.

William G. Brousseau.

Residence, 2222 Massachusetts Avenue. Telephone 1285.
Office, Central Square Building.
Office Hours, daily, 10 to 11 A.M. Telephone 660.

FENCE VIEWERS.

Lewis M. Hastings . . . . . City Hall.
Thomas F. Tracy . . . . . City Hall.

Telephone 471, 125.

SCHOOL COMMITTEE.

Charles H. Thurston, Mayor . . *Chairman, ex-officio.*

Term ending in 1906.

Carolyn P. Chase . . . . . Ward 10
Edward J. Kronan . . . . . Ward 2
William Taggard Piper . . . . Ward 9
J. Henry Russell . . . . . Ward 5
James A. Lew . . . . . Ward 7

Term ending in 1907.

George W. Bicknell . . . . . Ward 5
Sherman R. Lancaster . . . . Ward 7
Frank E. Sands . . . . . Ward 10
Lawrence G. Brooks . . . . . Ward 8
Robert Walker . . . . . Ward 1

Term ending in 1908.

Warren P. Adams . . . . . Ward 8
John E. Somers . . . . . Ward 11
Ada R. Kinsman . . . . . Ward 6
Joseph E. Sharkey . . . . . Ward 3
Edwin L. Cheney . . . . . Ward 4

Secretary and School Supply Agent.

SANFORD B. HUBBARD.

Superintendent of Schools.

WILLIAM C BATES.

Office Hours: 8.30 A. M. to 5 P. M.

Office, Rooms 13, 14, and 15, City Hall. Telephone 445.

CEMETERY DEPARTMENT—CEMETERY COMMISSIONERS.

JOHN LYNCH	*Chairman.*

Term, three years.

William A. Bertsch	Term expires 1907.
Gustave Wilson	Term expires 1907.
Herbert A. Chase	Term expires 1908.
Samuel Usher	Term expires 1908.
John S. Clary	Term expires 1909.
John Lynch	Term expires 1909.

Edward J. Brandon	*Clerk of the Board.*

Office, Rooms 8 and 9, City Hall. Telephone 419.

George D. Ford	*Supt. of Cemetery.*
John J. McKenzie	*Clerk of the Cemetery.*

Office Hours: at Cemetery, 8 A.M. to 5 P.M.

Office at Cemetery on Coolidge Avenue. Telephone 289–3.

PERSON TO CAUSE TO BE PROPERLY INTERRED THE BODIES OF SOLDIERS AND SAILORS.

EBEN W. PIKE.

Office, Room 16, City Hall. Telephone 818.

PUBLIC LIBRARY DEPARTMENT — TRUSTEES OF CAMBRIDGE PUBLIC LIBRARY.

Eugene A. McCarthy	*President.*

For one year.

William Taggard Piper of School Committee.

Citizens at large. Term, three years.

George F. McKelleget	Term expires 1907.
Edward C. Wheeler	Term expires 1907.
Albert M. Barnes	Term expires 1908.
Eugene A. McCarthy	Term expires 1908.
John Buckley	Term expires 1909.
Edward P. Collier	Term expires 1909.

William Taggard Piper . . . . . *Treasurer.*
Clarence W. Ayer . . . . . *Sec'y and Librarian.*

Library Open: 10 A. M. to 8 P. M.
Reading Room: 10 A. M. to 10 P. M.
Sunday, 2 to 10 P. M.

Office at Library Building, Broadway, Irving and Trowbridge Streets.
Telephone 610.

WATER WORKS DEPARTMENT — CAMBRIDGE WATER BOARD.

WILLIAM B. DURANT . . . . . *President.*

Term, five years.

George H. Howard . . . . . Term expires 1905.
William B. Durant . . . . . Term expires 1906.
Andrew J. Rady . . . . . Term expires 1907.
John F. O'Brien . . . . . Term expires 1908.
Edmund H. Stevens . . . . . Term expires 1909.

Walter H. Harding . . . . . *Clerk of the Board.*
Edwin C. Brooks . . . . . *Supt. of Water Works.*
Walter H. Harding . . . . . *Water Registrar.*

Office Hours: 8 A.M. to 4 P.M.
Office, Rooms 5 and 6, City Hall. Telephone 430.

REGISTRARS OF VOTERS.

J. FRANK FACEY . . . . . *Chairman.*

Term, four years.

Isaac S. Pear . . . . . Term expires 1905.
J. Frank Facey . . . . . Term expires 1906.
Peter P. Bleiler . . . . . Term expires 1907.
John P. McCormick . . . . . Term expires 1908.

Isaac S. Pear . . . . . *Clerk.*

Office at Central Square Building. Telephone 1027–3.

PARK DEPARTMENT—PARK COMMISSIONERS.

ANDREW J. CONLIN	*President.*
Term, three years.	
Andrew J. Conlin	Term expires 1905.
John E. Dwyer	Term expires 1906.
George Howland Cox	Term expires 1907.
John E. Dwyer	*Secretary.*
James A. Montgomery	*Gen'l Superintendent.*

Office Hours: 8 A.M. to 4 P. M.

Office, Room 11, City Hall. Telephone 650.

SINKING FUND DEPARTMENT—COMMISSIONERS OF THE SINKING FUNDS.

FRANK A. ALLEN	*Chairman.*
Term, three years.	
Austin Ford	Term expires 1906.
George G. Wright	Term expires 1906.
Frank A. Allen	Term expires 1907.
Thomas F. Royle	Term expires 1907.
Gustavus Goepper	Term expires 1908.
George H. Howard	Term expires 1908.
John McDuffie	*Secretary.*
William W. Dallinger	*Treasurer.*

OVERSEERS OF THE POOR DEPARTMENT — OVERSEERS OF THE POOR.

PATRICK CROWLEY	*Chairman.*
Term, five years.	
Patrick J. Callaghan	Term expires 1907.
James F. Mullen	Term expires 1908.
Patrick Crowley	Term expires 1909.
John R. McCool	Term expires 1910.
Henry H. Winslow	Term expires 1911.
David P. Muzzey	*Secretary.*
Charles E. Goodrow	*Supt. of City Home.*

Office Hours (at Central Square Building): 8 A. M. to 4 P. M.

Telephones { Office, 660. City Home, 189.

BOARD OF SURVEY.

*William E. Doyle	*Chairman.*

Term, three years.

James A. Wood	Term expires 1907.
*William E. Doyle	Term expires 1908.
Frederick A. McMenimen	Term expires 1909.

John McDuffie	*Secretary.*

* Resigned March 20, 1906.

AGENT FOR COMMITTEE ON SOLDIERS' AID.

Eben W. Pike.

Office Hours: 8 A.M. to 4 P.M.

Office, Room 16, City Hall. Telephone 818.

TRUSTEES OF THE DOWSE INSTITUTE.

Frank A. Allen	*President.*
Charles H. Thurston	*Mayor, ex-officio.*
George A. Giles, *President of Common Council, ex-officio.*	
George Howland Cox	Willard A. Bullard.
	Frank A. Allen.
George Howland Cox	*Secretary.*

TRUSTEES OF THE { SANDERS TEMPERANCE FUND. / BRIDGE CHARITABLE FUND.

Charles H. Thurston, Mayor, Charles H. Lake, President of Board of Aldermen, George A. Giles, President of the Common Council,

Ex-Officiis

PERSON TO RECEIVE INFORMATION OF DAMAGES BY DOGS.

(R. L., C. 102, § 155. C. 226, Acts 1902.)

Frederick B. Pullen.

TRUANT OFFICERS.

Lucian S. Cabot.	William H. Porter.
John Carmichael.	Thomas F. Riley.

CONSTABLES.

(Without power to serve civil process.)

Fred Bailey.
Lucian S. Cabot.
John C. Connors.
John Carmichael.
Patrick Carroll.
John J. Creedon.
George H. Dinan.
Charles H. Dolloff.
John J. Foley.
John Good.
Charles E. Goodrow.
Frank A. Hagar.
Fred M. Harrington.
James Hicks.
Thomas A. Hughes.
Joseph James.
John A. Jackson.
Charles A. Lincoln.
Peter Malone.
Eugene McCarthy.
John McDonald.
Francis A. McLaughlin.
Thomas H. McManus.
Daniel J. Mills.
David J. Nelligan.
William H. Porter.
Thomas F. Riley.
John J. Roach.
John Ryan.
Leander Sampson.
John Taylor.
Frank H. Wait.
Joseph B. Whoriskey.

CONSTABLES.

(With power to serve civil process.)

George E. Brown.
Timothy J. Curtin.
John Foster.
Joseph Fox.
Warren Ivers.
James E. Lennon.
John T. Lynch.
Charles F. Manning.
William F. McCormick.
Thomas J. McGowan.
Dennis H. Noonan.
Frank E. Shaw.
Arthur M. Stewart.

UNDERTAKERS.

Forest M. Blake.
Joseph P. Calnan.
David F. Corcoran.
Jeremiah Corkery.
John W. Coveney.
Edward O. Cox.
Ellen M. Danehy.
Timothy T. A. Danehy.
William H. Danehy.
Edwin L. Derby.
John J. Dunn.
George E. Everett.

David Fudge.
Edward J. Fudge.
George M. Joll.
George H. Kelley.
Horace D. Litchfield.
Judson Litchfield.
C. Henry Lockhart.
Wm. A. Lockhart.
Abiel E. Long.
George W. Long.
Joseph W. McDonald.
James F. Mullen.
John J. Murphy.
William N. Neally.
David J. Nelligan.
T. Louis O'Brien.
John O'Connell.
Carl L. Olsen.
Frank J. Proske.
Jos. H. Ricker.
John J. Ross.
Daniel P. Shea.
James J. Shea.
Michael J. Shea.
Ralph Smith.
William Stinson.
William A. Taylor.
Charles W. Tukey, 3rd.
Benjamin F. Wyeth.

AUCTIONEERS.

Henry O. Cutter.
Watson G. Cutter.
Charles Houlder.
Samuel R. Knights.
John T. Lynch.
William T. Phelan.
Walter C. Wardwell.

MEASURERS OF WOOD AND BARK.

Richard T. Donoclift.
Walter H. Nay.
Robert A. Parry.
David C. Proudfoot.
Joseph P. Quilty.
Sewell R. Seaverns.
Charles B. Wendell.

POUND KEEPER.

Robert Holden.

COMMITTEE FOR THE PRESERVATION OF FISH.

Edwin C. Brooks.
Theodore L. Pike.

INSPECTORS OF JUNK SHOPS, PAWNBROKERS' SHOPS AND SECOND-HAND STORES AND DEALERS.

Patrick J. Hurley.
John J. McBride.
James E. Murray.
John F. Murray.

HAY WEIGHERS.

Frank W. Bartlett.
William N. Neally.
George M. David.

PUBLIC WEIGHERS.

Francis E. Bailey.
Robert C. Bird.
Ernest E. Bradbury.
Theodore P. Clark.
Edward B. Dale.
John E. Fay.
Alexander S. Ford.
John P. Healy.
Robert Holden.
John H. Holt.
James Knowles.
Neil Macdonald.
Fred W. MacFarland.
Melvin MacFarland.
William Maloney.
Martin McMahon.
John F. Reilly.
John M. Thayer.
James J. Travers.
James A. Whelan.

INSPECTOR OF PRESSED OR BUNDLED HAY OR STRAW.

Harvey O. Titus.

MEASURERS OF GRAIN.

John C. Connors.
George H. Dinan.

PERSONS

To seize all baskets, measures or vessels used or intended to be used in measuring charcoal, as provided in Sect. 93, Chap. 57, R. L.

John C. Connors.
George H. Dinan

SURVEYOR OF MECHANICS' WORK.

Charles A. Mason.

STATE AND CITY ELECTIONS

HELD

NOVEMBER 7, 1905, DECEMBER 12, 1905

RESPECTIVELY

As Corrected by Recounts.

VOTES CAST FOR GOVERNOR AND OTHER STATE OFFICERS, COUNCILLOR, SENATORS, COUNTY COMMISSIONER, REGISTER OF PROBATE AND REPRESENTATIVES IN THE GENERAL COURT, FOR CITY OFFICERS, AND ON THE LICENSE QUESTION, TERM OF OFFICE OF CITY AUDITOR, AND ON THE QUESTION OF SUBWAYS OR ELEVATED RAILWAYS.

STATE ELECTION, NOVEMBER 7, 1905.

CANDIDATES FOR

Names of Candidates.	Governor.							Lieut. Governor.						Secretary.						Treasurer.					
	Whole Number.	Charles W. Bartlett	James F. Carey.	William H. Carroll.	Curtis Guild, Jr.	Willard O. Wylie.	Blank.	Thomas F. Brennan	Eben S. Draper.	Patrick Mahoney.	John H. Smith.	Henry M. Whitney.	Blank.	Chas. C. Hitchcock.	Jonathan S. Lewis.	Henry B. Little.	William M. Olin.	Moritz E. Ruther.	Blank.	Christopher D. Albro	David S. Brodeur.	Arthur B. Chapin.	Joao Clandino.	Daniel F. Doherty.	Blank.
Ward 1, Precinct 1	342	293	5	1	33	....	10	....	36	6	2	282	15	7	1	252	41	2	39	....	7	35	....	265	35
Ward 1, Precinct 2	325	249	7	2	63	....	4	7	51	8	2	248	7	13	2	221	60	1	28	2	8	62	....	227	26
Ward 1, Totals....	667	542	12	3	96	....	14	7	87	14	4	530	22	20	3	473	101	3	67	2	15	97	....	492	61
Ward 2, Precinct 1	339	259	10	2	59	...	9	3	46	9	2	264	17	11	....	230	55	3	40	1	8	53	2	229	46
Ward 2, Precinct 2	295	223	3	3	59	2	5	2	46	9	1	222	16	5	3	200	48	4	35	1	7	49	2	197	39
Ward 2, Totals....	634	482	13	5	118	2	14	5	92	18	3	486	33	16	3	430	103	7	75	2	15	102	4	426	85
Ward 3, Precinct 1	528	425	21	4	48	1	29	6	42	19	5	409	44	17	1	366	49	7	88	6	12	40	3	372	95
Ward 3, Precinct 2	374	289	12	1	62	1	9	3	55	13	1	280	23	10	4	248	63	1	48	1	10	55	1	254	53
Ward 3, Precinct 3	396	266	13	1	101	2	13	17	90	13	1	262	19	15	1	225	107	2	46	2	14	102	1	231	46
Ward 3, Totals....	1,298	980	46	6	211	4	51	26	187	45	7	951	86	42	6	839	219	10	182	9	36	197	5	857	194
Ward 4, Precinct 1	381	245	8	1	97	2	28	2	96	9	3	242	29	7	2	209	105	2	56	2	7	103	1	217	51
Ward 4, Precinct 2	372	190	10	....	161	4	7	5	143	12	3	199	11	12	7	144	166	2	41	6	13	160	3	157	33
Ward 4, Precinct 3	445	200	10	1	219	3	12	7	198	12	3	206	25	12	6	151	234	....	42	4	10	231	2	156	42
Ward 4, Totals....	1,198	635	28	2	477	9	47	14	437	33	9	647	65	31	15	504	505	4	139	12	30	494	6	530	126
Ward 5, Precinct 1	483	277	8	3	184	1	10	7	158	9	3	287	17	14	1	236	184	7	41	1	11	185	3	247	36
Ward 5, Precinct 2	481	207	4	....	260	....	10	1	220	6	2	240	12	5	5	179	267	1	24	3	8	263	....	175	32
Ward 5, Precinct 3	423	108	9	....	296	4	6	....	253	9	3	148	9	9	4	71	324	...	15	5	9	326	....	66	17
Ward 5, Totals....	1,387	592	21	3	740	5	26	8	631	24	8	675	38	28	10	486	775	8	80	9	28	774	3	488	85

Ward 6, Precinct 1	462	180	20	4	245	2	11	5	233	18	2	187	14	20	3	147	246	11	35	5	17	246	6	150	38
Ward 6, Precinct 2	511	263	16	2	223	3	4	4	197	15	3	279	12	17	4	222	223	3	42	4	11	225	5	213	53
Ward 6, Precinct 3	505	171	4	4	316	2	8	7	268	6	6	199	16	8	5	119	345	4	24	7	5	345	4	122	22
Ward 6, Totals....	1,478	614	40	10	784	7	23	16	698	39	11	665	42	45	12	488	814	18	101	16	33	816	15	485	113
Ward 7, Precinct 1	454	107	5	....	332	8	2	1	291	4	5	140	13	5	8	71	343	1	26	6	5	345	1	70	27
Ward 7, Precinct 2	516	296	12	1	189	4	14	5	172	7	2	311	18	11	8	255	197	....	45	4	9	199	1	265	38
Ward 7, Precinct 3	505	216	7	...	255	13	14	6	217	26	9	244	21	12	14	176	254	1	48	12	6	272	1	170	44
Ward 7, Totals....	1,475	619	24	1	776	25	30	12	680	37	16	695	52	28	30	502	794	2	119	22	20	816	3	505	109
Ward 8, Precinct 1	340	161	6	1	164	2	6	7	129	5	3	177	24	7	1	125	190	1	16	4	6	189	3	122	16
Ward 8, Precinct 2	416	171	3	1	231	3	7	2	182	2	5	215	11	6	3	134	247	....	26	1	6	260	....	129	20
Ward 8, Precinct 3	401	293	.....	....	97	....	11	3	84	3	3	291	17	3	2	266	93	1	36	....	4	91	1	280	25
Ward 8, Totals....	1,157	625	9	2	492	5	24	12	395	10	11	683	52	16	6	525	530	2	78	5	16	540	4	531	61
Ward 9, Precinct 1	537	254	3	1	278	1	....	...	246	3	2	268	18	4	3	138	376	....	16	3	4	392	....	116	22
Ward 9, Precinct 2	593	335	9	1	234	2	12	1	169	12	4	384	22	12	2	281	267	....	31	4	10	268	1	282	28
Ward 9, Totals....	1,130	589	12	2	512	3	12	1	415	15	6	652	40	16	5	419	643	....	47	7	14	660	1	398	50
Ward 10, Precinct 1	438	129	3	1	300	5	....	....	252	3	6	167	13	2	2	75	337	....	22	3	2	335	....	77	21
Ward 10, Precinct 2	536	296	9	4	212	2	13	8	180	7	6	322	13	14	5	225	241	17	34	6	9	226	4	258	33
Ward 10, Totals....	974	425	12	5	512	7	13	8	432	10	12	489	26	16	7	300	578	17	56	9	11	561	4	335	54
Ward 11, Precinct 1	660	310	9	1	329	3	8	3	277	11	4	343	18	9	3	251	349	....	48	2	11	352	1	243	51
Ward 11, Precinct 2	663	468	5	29	107	39	15	9	143	8	....	463	39	6	4	406	165	9	73	2	6	159	6	418	72
Ward 11, Totals....	1,323	778	14	30	436	42	23	12	420	19	4	806	57	15	7	657	514	9	121	4	17	511	7	661	123
Grand Totals.....	12,721	6,881	231	69	5,154	109	277	121	4,474	264	91	7,279	513	273	104	5,623	5,576	80	1,065	97	235	5,568	52	5,708	1,061

CANDIDATES FOR

Names of Candidates.	Auditor.						Attorney General.						Councillor.			Senator 2nd Suffolk.				Senator 2nd Middlesex.		
	Patrick J. Ashe.	Herbert B. Griffin.	E. O. Fredrik Hansson.	Ambrose Miles.	Henry E. Turner.	Blank.	Allen Coffin.	Henry C. Hess.	John P. Leahy.	Dana Malone.	John Weaver Sherman.	Blank.	Warren W. Rawson.	George A. Sanderson.	Blank.	George J. Cann.	James J. Mellen.	Jeremiah Ryan.	Blank.	Edward E. Clark.	Frederick J. Macleod.	Blank.
Ward 1, Precinct 1.....	262	2	2	6	34	36	.....	5	261	24	16	36	34	262	46	33	276	11	22			
Ward 1, Precinct 2.....	226	2	3	7	57	30	.....	7	222	58	9	29	63	228	34	55	234	11	25			
Ward 1, Totals.	488	4	5	13	91	66	.....	12	483	82	25	65	97	490	80	88	510	22	47			
Ward 2, Precinct 1.....	228	2	3	9	54	43	.....	4	239	51	9	36	55	236	48	54	232	14	39			
Ward 2, Precinct 2.....	199	1	3	6	43	43	3	3	205	46	7	31	55	200	40	43	213	8	31			
Ward 2, Totals.....	427	3	6	15	97	86	3	7	444	97	16	67	110	436	88	97	445	22	70			
Ward 3, Precinct 1. ...	377	3	4	18	40	86	4	6	376	38	16	88	51	370	107					109	352	61
Ward 3, Precinct 2....	249	2	1	11	58	53	1	2	259	56	12	44	61	248	65					92	253	26
Ward 3, Precinct 3.....	229	2	3	11	98	53	1	5	230	102	12	46	105	237	54					116	248	31
Ward 3, Totals.....	855	7	8	40	196	192	6	13	865	196	40	178	217	855	226					317	853	118
Ward 4, Precinct 1.....	209	1	2	6	104	59	1	3	220	98	7	52	98	213	70					112	230	39
Ward 4, Precinct 2.....	152	5	5	11	155	44	4	4	158	150	11	45	166	159	47					176	170	26
Ward 4, Precinct 3.....	151	8	2	9	223	52	6	1	166	209	11	52	225	167	53					227	191	27
Ward 4, Totals....	512	14	9	26	482	155	11	8	544	457	29	149	489	539	170					515	591	92
Ward 5, Precinct 1.....	235	5	6	12	180	45	5	6	243	172	13	44	182	246	55					178	269	36
Ward 5, Precinct 2.....	176	7	1	4	265	28	6	2	182	261	6	24	261	182	38					259	204	18
Ward 5, Precinct 3.....	68	7	...	8	318	22	7	.....	74	303	14	25	316	77	30					298	106	19
Ward 5, Totals.....	479	19	7	24	763	95	18	8	499	736	33	93	759	505	123					735	579	73
Ward 6, Precinct 1.....	144	2	11	18	243	44	5	9	142	247	20	39	249	154	59					238	185	38
Ward 6, Precinct 2.....	215	4	3	13	227	49	8	9	226	212	17	39	229	223	59					228	264	19
Ward 6, Precinct 3. ...	114	9	4	7	340	31	16	3	119	330	10	27	340	120	45					317	158	29
Ward 6, Totals.....	473	15	18	38	810	124	29	21	487	789	47	105	818	497	163					783	607	86

Ward 7, Precinct 1. ...	68	11	1	8	342	24	23	2	63	339	5	22	342	75	37					304	131	19
Ward 7, Precinct 2....	258	3	1	10	197	47	5	5	268	190	10	38	198	264	54					203	293	20
Ward 7, Precinct 3.....	159	13	1	6	261	65	14	.....	165	256	15	55	273	176	56					291	190	27
Ward 7, Totals.....	485	27	3	24	800	136	42	7	496	785	30	115	813	515	147					798	614	66
Ward 8, Precinct 1.....	129	2	2	5	181	21	5	4	120	182	9	20	169	138	33					157	168	15
Ward 8, Precinct 2.....	126	4	1	4	253	28	7	6	126	244	5	28	246	137	33					228	171	17
Ward 8, Precinct 3....	269	.....	2	4	92	34	3	5	271	93	1	28	100	263	33					109	267	25
Ward 8, Totals.....	524	6	5	13	526	83	15	15	517	519	15	76	515	538	104					494	606	57
Ward 9, Precinct 1.....	112	3	....	3	386	33	10	.....	121	374	8	24	365	145	27					319	203	15
Ward 9, Precinct 2.....	280	6	1	12	254	40	8	4	283	249	10	39	248	301	44					242	335	16
Ward 9, Totals.....	392	9	1	15	640	73	18	4	404	623	18	63	613	446	71					561	538	31
Ward 10, Precinct 1....	79	4	1	2	331	21	5	.....	85	324	6	18	324	89	25					313	114	11
Ward 10, Precinct 2....	249	9	6	8	221	43	11	4	260	214	11	36	218	266	52					220	287	29
Ward 10, Totals.....	328	13	7	10	552	64	16	4	345	538	17	54	542	355	77					533	401	40
Ward 11, Precinct 1....	245	1	7	9	346	52	4	5	266	329	15	41	333	267	60					342	276	40
Ward 11, Precinct 2....	404	3	8	9	159	80	2	14	406	155	7	79	163	413	87					269	359	32
Ward 11, Totals.....	649	4	15	18	505	132	6	19	672	484	22	120	496	680	147					611	635	72
Grand Totals.....	5,612	121	84	236	5,462	1,206	164	118	5,756	5,306	292	1,085	5,469	5,856	1,396	185	955	44	117	5,347	5,424	635

CANDIDATES FOR REPRESENTATIVES IN GENERAL COURT.

	3rd Middlesex.				2nd Middlesex.							4th Middlesex.									1st Middlesex.			5th Middlesex.		
Names of Candidates.	James T. Barrett.	Walter P. Thorne.	William Ward.	Blank.	J. Edward Barry.	Jeremiah F. Downey.	William H. Joyce.	George Keefe.	Timothy J. Reagan.	John B. Smithers.	Blank.	William H. Antle.	Saul Beaumont.	Fred L. Beunke.	Julius Meyers.	James Saltman.	Lewis G. Spachman.	W. K. Joice.	W. H. Joyce.	Blank.	William P. Nickerson.	W. Rodman Peabody.	Blank.	George W. Long.	Frank McDermott.	Blank.
Ward 1, Prec. 1.	220	19	81	22																						
Ward 1, Prec 2.	193	20	74	38																						
Ward 1, Totals..	413	39	155	60																						
Ward 2, Prec. 1.	216	21	71	31																						
Ward 2, Prec. 2.	184	19	55	37																						
Ward 2, Totals..	400	40	126	68																						
Ward 3, Prec. 1.					329	372	132	16	15	32	160															
Ward 3, Prec. 2.					242	245	110	8	9	39	95															
Ward 3, Prec. 3.					221	225	150	18	9	91	78															
Ward 3, Totals..					792	842	392	42	33	162	333															
Ward 4, Prec. 1.					209	214	125	7	9	90	108															
Ward 4, Prec 2.					150	133	187	15	10	155	94															
Ward 4, Prec. 3.					158	136	227	11	6	224	128															
Ward 4, Totals..					517	483	539	33	25	469	330															
Ward 5, Prec. 1.					261	216	207	8	10	163	101															
Ward 5, Prec. 2.					210	163	268	8	6	216	91															
Ward 5, Prec. 3.					90	69	296	10	10	276	95															
Ward 5, Totals..					561	448	771	26	26	655	287															

Ward 6, Prec. 1.												147	25	245	227	115	21	...	...	144						
Ward 6, Prec. 2.												200	15	252	226	163	12	...	...	154						
Ward 6, Prec. 3.												104	7	353	335	77	16	...	...	118						
Ward 6, Totals..												451	47	850	788	355	49	...	...	416						
Ward 7, Prec. 1.												60	6	343	342	51	3	...	...	103						
Ward 7, Prec. 2.												242	11	195	224	214	9	1	...	136						
Ward 7, Prec. 3.												151	6	274	273	155	1	...	1	149						
Ward 7, Totals..												453	23	812	839	420	13	1	1	388						
Ward 8, Prec. 1.																					110	210	20			
Ward 8, Prec. 2.																					118	276	22			
Ward 8, Prec. 3.																					276	99	26			
Ward 8, Totals..																					504	585	68			
Ward 9, Prec. 1.																					108	411	18			
Ward 9, Prec. 2.																					275	287	31			
Ward 9, Totals..																					383	698	49			
Ward 10, Prec. 1																								346	83	9
Ward 10, Prec. 2																								243	269	24
Ward 10, Totals																								589	352	33
Ward 11, Prec. 1																								406	239	15
Ward 11, Prec. 2																								218	420	25
Ward 11, Totals.																								624	659	40
Grand Totals ...	813	79	281	128	1,870	1,773	1,702	101	84	1,286	950	904	70	1,662	1,627	775	62	1	1	804	887	1,283	117	1,213	1,011	73

CANDIDATES FOR

Names of Candidates.	County Commissioner.			Register of Probate.		
	Frederick Bancroft.	Levi S. Gould.	Blank.	Alfred Belanger.	William E. Rogers.	Blank.
Ward 1, Precinct 1	264	34	44	261	34	47
Ward 1, Precinct 2	231	61	33	227	60	38
Ward 1, Totals	495	95	77	488	94	85
Ward 2, Precinct 1	234	52	53	227	53	59
Ward 2, Precinct 2	199	52	44	206	45	44
Ward 2, Totals	433	104	97	433	98	103
Ward 3, Precinct 1	378	46	104	367	47	114
Ward 3, Precinct 2	257	60	57	256	56	62
Ward 3, Precinct 3	228	107	61	238	101	57
Ward 3, Totals	863	213	222	861	204	233
Ward 4, Precinct 1	218	99	64	222	100	59
Ward 4, Precinct 2	165	156	51	159	155	58
Ward 4, Precinct 3	163	220	62	153	228	64
Ward 4, Totals	546	475	177	534	483	181
Ward 5, Precinct 1	252	183	48	252	181	50
Ward 5, Precinct 2	186	269	26	187	262	32
Ward 5, Precinct 3	77	304	42	74	314	35
Ward 5, Totals	515	756	116	513	757	117
Ward 6, Precinct 1	164	238	60	164	240	58
Ward 6, Precinct 2	225	225	61	229	221	61
Ward 6, Precinct 3	126	339	40	131	332	42
Ward 6, Totals	515	802	161	524	793	161
Ward 7, Precinct 1	81	336	37	76	337	41
Ward 7, Precinct 2	275	189	52	267	192	57
Ward 7, Precinct 3	185	263	57	177	270	58
Ward 7, Totals	541	788	146	520	799	156
Ward 8, Precinct 1	134	175	31	131	179	30
Ward 8, Precinct 2	139	243	34	123	256	37
Ward 8, Precinct 3	277	94	30	281	92	28
Ward 8, Totals	550	512	95	535	527	95
Ward 9, Precinct 1	140	361	36	124	378	35
Ward 9, Precinct 2	289	257	47	289	258	46
Ward 9, Totals	429	618	83	413	636	81
Ward 10, Precinct 1	90	319	29	82	326	30
Ward 10, Precinct 2	269	224	43	268	222	46
Ward 10, Totals	359	543	72	350	548	76
Ward 11, Precinct 1	271	329	60	264	339	57
Ward 11, Precinct 2	425	157	81	437	158	68
Ward 11, Totals	696	486	146	701	497	125
Grand Totals	5,942	5,392	1,387	5,872	5,436	1,413

MUNICIPAL ELECTION, DECEMBER 12, 1905.

CANDIDATES FOR

Names of Candidates.	Mayor.						Assessor.				
	Whole Number.	Saul Beaumont.	Warren K. Blodgett.	Charles H. Thurston.	H. L. Carstein.	Blank.	William E. Chandler.	Timothy W. Good.	Warren Ivers.	John H. Doherty.	Blank.
Ward 1, Prec. 1.....	456	9	66	374	....	7	11	360	57	....	28
Ward 1, Prec. 2.....	427	3	97	325	....	2	9	317	88	....	13
Ward 1, Totals.....	883	12	163	699	....	9	20	677	145	....	41
Ward 2, Prec. 1.... ...	456	4	93	357	....	2	9	349	77	....	21
Ward 2, Prec. 2.....	404	5	88	307	...	4	9	299	80	....	16
Ward 2, Totals.....	860	9	181	664	....	6	18	648	157	....	37
Ward 3, Prec. 1...	594	12	101	472	....	9	15	471	75	....	33
Ward 3, Prec. 2.....	449	10	98	336	...	5	12	339	75	....	23
Ward 3, Prec. 3.....	452	6	142	296	....	8	10	299	126	....	17
Ward 3, Totals.....	1,494	28	341	1,104	....	22	37	1,109	276	....	73
Ward 4, Prec. 1.....	463	3	129	315	....	16	12	303	116	....	32
Ward 4, Prec. 2..	431	11	225	192	...	3	6	198	214	...	13
Ward 4, Prec. 3...	522	14	314	187	....	7	23	177	296	....	26
Ward 4, Totals.....	1,416	28	668	694	....	26	41	678	626	....	71
Ward 5, Prec. 1.....	556	5	249	299	....	3	7	318	219	....	12
Ward 5, Prec. 2.....	506	3	329	172	....	2	3	191	295	....	17
Ward 5, Prec. 3.....	478	3	392	80	....	3	14	72	383	....	9
Ward 5, Totals.....	1,540	11	970	551	....	8	24	581	897	....	38
Ward 6, Prec. 1.....	555	17	317	212	....	9	26	200	308	....	21
Ward 6, Prec. 2.....	591	7	304	276	....	4	20	264	292	....	15
Ward 6, Prec. 3..	552	5	412	135	....	.. ...	8	133	405	.. .	6
Ward 6, Totals.....	1,698	29	1,033	623	....	13	54	597	1,005	....	42
Ward 7, Prec. 1.....	489	5	386	93	....	5	14	87	376	....	12
Ward 7, Prec. 2.....	614	4	251	347	....	12	13	345	227	....	29
Ward 7, Prec. 3.....	589	5	361	212	....	11	15	213	331	....	30
Ward 7, Totals.....	1,692	14	998	652	....	28	42	645	934	....	71
Ward 8, Prec. 1.....	420	2	254	159	....	5	7	148	254	....	11
Ward 8, Prec. 2	487	3	320	161	....	3	11	149	310	....	17
Ward 8, Prec. 3.....	532	.....	130	396	....	6	3	395	118	....	16
Ward 8, Totals.....	1,439	5	704	716	....	14	21	692	682	....	44
Ward 9, Prec. 1.....	607	1	484	120	....	2	3	128	466	....	10
Ward 9, Prec. 2..	694	6	347	334	....	7	8	333	333	2	18
Ward 9, Totals..	1,301	7	831	454	....	9	11	461	799	2	28
Ward 10, Prec. 1.....	449	4	372	71	....	2	2	88	351	....	8
Ward 10, Prec. 2.....	584	5	284	287	....	8	11	288	270	....	15
Ward 10, Totals..	1,033	9	656	358	....	10	13	376	621	....	23
Ward 11, Prec. 1.....	681	5	396	277	....	3	14	267	379	....	21
Ward 11, Prec. 2.....	705	4	227	464	1	9	7	498	168	....	32
Ward 11, Totals.....	1,386	9	623	741	1	12	21	765	547	....	53
Grand Totals	14,743	161	7,168	7,256	1	157	302	7,229	6,689	2	521

CANDIDATES FOR ALDERMEN.

NAMES OF CANDIDATES.	John Allen.	Manuel Andrew.	Joseph H. Beale, Jr.	Marshall E. Blanchard.	Harlow C. Brownell.	Nicholas F. Burke.	William Cavanaugh	Oliver D. Clary.	Willard P. Cooney.	Daniel Cronin.	Daniel J. Dinan.	George L. Dow.	John W. Ducharme.	Francis J. Fahy.	Frank D. Field.	Michael H. Flynn.	Henry Garland.	Leon Gustin.	John T. Hart.	Arthur R. Henderson.	Edward B. James.	Charles H. Lake.	Robert Lusk.	Maurice M. Lynch.	William B. McCoy.	John T. Morris.	Thomas F. O'Neil.	Harry A. Penniman.	James F. Quinn.	Timothy J. Reagan.	Lewis G. Spachman.	Walter P. Thorne.	Joseph R. Tierney.	Blank.
WARD 1.																																			
Precinct 1.	134	348	54	57	50	295	13	100	12	287	297	50	6	307	47	306	14	9	324	44	293	55	8	304	48	8	291	49	297	10	5	9	9	876
" 2.	124	315	83	81	82	275	11	112	12	260	232	77	8	306	80	277	7	3	300	79	268	84	7	279	72	14	257	76	268	10	1	11	5	621
Wd. 1, T'ls	258	663	137	138	132	570	24	212	24	547	529	127	14	613	127	583	21	12	624	123	561	139	15	583	120	22	548	125	565	20	6	20	14	1497
WARD 2.																																		
Precinct 1.	114	341	71	71	69	302	18	111	12	300	277	69	9	331	70	304	9	9	335	65	310	74	9	310	57	9	301	56	312	12	8	8	7	656
" 2.	98	293	66	67	65	275	9	104	7	238	225	61	8	278	62	262	3	4	274	65	260	63	4	265	63	6	261	61	254	7	5	3	10	718
Wd. 2, T'ls	212	634	137	138	134	577	27	215	19	538	502	130	17	609	132	566	12	13	609	130	570	137	13	575	120	15	562	117	566	19	13	11	17	1374
WARD 3.																																		
Precinct 1.	121	420	99	84	92	421	19	105	22	413	383	80	18	417	77	428	15	15	411	77	420	89	15	424	77	13	401	73	434	19	9	11	15	817
" 2.	95	307	71	70	71	312	11	82	18	315	301	76	11	317	71	329	9	9	318	76	317	82	10	320	68	11	307	70	322	11	12	12	13	510
" 3.	142	287	126	119	113	279	13	139	9	273	258	124	11	280	124	281	10	10	277	119	276	126	10	284	132	10	272	122	278	13	10	11	9	425
Wd. 3, T'ls	358	1014	296	273	276	1012	43	326	49	1001	942	280	40	1014	272	1038	34	34	1006	272	1013	297	35	1028	277	34	980	265	1034	49	30	34	37	1752
WARD 4.																																		
Precinct 1	129	288	110	108	111	278	9	116	10	271	267	110	7	273	107	288	9	4	271	104	273	108	7	284	101	10	273	108	279	7	4	7	9	753
" 2.	208	186	194	192	190	174	10	203	8	170	162	193	8	175	196	204	12	6	176	193	182	187	7	184	183	7	162	198	179	9	4	7	7	565
" 3.	305	167	294	291	282	162	15	290	12	151	152	290	12	165	288	179	13	10	160	293	166	292	16	162	275	11	154	289	158	9	7	11	11	650
Wd. 4, T'ls	642	641	598	591	583	614	34	609	30	592	581	593	27	613	591	671	34	26	607	590	621	587	30	630	559	28	589	595	616	25	15	25	27	1968
WARD 5.																																		
Precinct 1.	249	277	226	216	216	278	11	235	9	263	260	222	6	282	215	294	6	8	281	223	270	226	8	281	216	7	268	218	279	10	6	9	8	533
" 2.	321	172	301	301	293	174	8	313	7	135	126	297	3	153	291	165	4	1	177	298	169	305	1	163	281	3	151	286	143	1	2	5	4	512
" 3.	387	65	393	379	378	71	9	373	10	63	68	378	5	71	372	73	8	7	68	380	70	384	9	67	377	8	66	378	67	5	5	7	6	251
Wd. 5, T'ls	957	514	920	896	887	523	28	921	26	461	454	897	14	506	878	532	18	16	526	901	509	915	18	511	874	18	485	882	489	16	13	21	18	1296

WARD 6.																																
Precinct 1.	305	185	292	280	278	178	33	300	26	172	174	294	24	190	290	202	22	22	174	291	188	285	21	181	279	23	164	303	176	22	22	28	21	650
" 2.	316	236	305	293	289	235	12	301	12	223	220	309	8	237	291	242	9	9	236	296	247	298	10	237	294	8	227	321	234	10	7	14	11	504
" 3.	414	115	403	406	400	112	9	402	9	108	108	409	6	116	406	117	6	4	115	401	125	404	5	115	398	4	114	404	110	3	3	4	3	314
Wd. 6, T'ls	1035	536	1000	979	967	525	54	1003	47	503	502	1012	38	543	987	561	37	35	535	988	560	987	36	533	971	35	505	1028	520	35	32	46	35	1468
WARD 7.																																		
Precinct 1.	373	83	368	362	356	78	8	358	7	71	66	384	10	78	368	83	9	3	80	369	90	368	3	70	369	5	65	382	68	4	5	3	5	428
" 2.	243	315	245	231	233	324	7	244	11	313	305	236	7	327	236	325	6	3	325	243	324	237	4	325	227	5	316	235	315	7	2	9	2	567
" 3.	350	188	338	336	337	188	16	338	12	181	175	346	9	184	333	194	7	4	180	342	186	341	6	187	332	8	188	341	178	13	4	8	12	617
Wd. 7, T'ls	966	586	951	929	926	590	31	940	30	565	546	966	26	589	937	602	22	10	585	954	600	946	13	582	928	18	569	958	561	24	11	20	19	1612
WARD 8.																																		
Precinct 1.	254	137	252	250	248	138	6	249	4	134	124	253	4	136	251	141	5	5	146	250	146	255	3	141	246	7	132	247	136	3	3	4	4	306
" 2.	343	129	333	321	325	133	5	325	7	126	117	327	4	131	316	136	4	5	129	318	140	324	2	131	317	4	122	316	129	1	2	3	5	327
" 3.	121	366	123	118	119	367	2	118	5	362	349	126	3	362	118	369	2	3	355	131	370	136	3	364	115	9	360	119	352	4	1	4	1	495
Wd. 8, T'ls	718	632	708	689	692	638	13	692	16	622	590	706	11	629	685	646	11	13	630	699	656	715	8	636	678	20	614	682	617	8	6	11	10	1128
WARD 9.																																		
Precinct 1.	467	103	476	460	465	101	2	465	4	94	93	466	3	96	458	102	4	0	104	469	121	463	0	104	457	7	93	457	95	4	3	5	6	430
" 2.	349	321	348	333	322	327	6	325	8	310	288	338	2	315	324	319	6	1	314	338	339	338	5	301	322	3	309	328	304	5	4	3	6	473
Wd. 9, T'ls	816	424	824	793	787	428	8	790	12	404	381	804	5	411	782	421	10	1	418	807	460	801	5	405	779	10	402	785	399	9	7	8	12	903
WARD 10.																																		
Precinct 1.	368	58	366	369	359	70	5	361	4	53	49	367	4	53	359	57	5	5	59	360	67	365	4	58	366	5	58	359	53	2	2	2	4	263
" 2.	283	269	280	286	282	286	10	276	8	259	255	268	8	268	266	273	8	6	269	266	269	275	6	272	269	7	269	264	263	6	7	9	9	373
Wd 10, T'ls	651	327	646	655	641	356	15	637	12	312	304	635	12	321	625	330	13	11	328	626	336	640	10	330	635	12	327	623	316	8	9	11	13	636
WARD 11.																																		
Precinct 1.	398	224	385	379	413	232	8	384	9	213	197	380	7	214	375	217	9	7	220	381	223	387	5	228	372	10	246	373	216	6	4	6	12	751
" 2.	206	436	172	167	176	446	17	178	16	426	400	172	10	435	170	441	9	12	424	172	423	174	11	486	162	12	466	165	428	14	12	11	12	894
Wd. 11, T'ls	604	660	557	546	589	678	25	562	25	639	597	552	17	649	545	658	18	19	644	553	646	561	16	714	534	22	712	538	644	20	16	17	24	1645
Gr. Totals.	7217	6631	6774	6627	6614	6511	302	6907	290	6184	5928	6702	221	6497	6561	6608	230	184	6512	6643	6532	6725	199	6527	6475	234	6293	6598	6327	233	158	224	226	15279

CANDIDATES FOR COMMON COUNCIL.

WARD ONE.

	James S. Clark.	Thomas H. McManus.	Daniel F. O'Connell.	Joseph A. Sullivan.	Blank.
Precinct 1	47	106	312	341	106
" 2	81	117	289	276	91
Ward 1, Totals	128	223	601	617	197

WARD TWO.

	John M. Cotter.	William M. Hogan.	Blank.
Precinct 1	385	351	176
" 2	311	301	196
Ward 2, Totals	696	652	372

WARD THREE.

	James F. Black.	Albert Gertson.	Dennis F. Hurley.	Frank Maron.	Blank.
Precinct 1	450	87	467	82	100
" 2	348	69	339	75	67
" 3	285	135	288	123	73
Ward 3, Totals	1,083	291	1,094	280	240

WARD FOUR.

	James P. Crowley.	Winslow Herbert Dodge.	Peter J. Norton.	Wendall C. Tucker.	Blank.
Precinct 1	280	118	287	130	111
" 2	183	210	193	190	86
" 3	153	322	184	276	109
Ward 4, Totals	616	650	664	596	306

CANDIDATES FOR COMMON COUNCIL.

WARD FIVE.

	Albert H. Chamberlain.	Herbert M. Chase.	Albin L. Richards.	Stevenson.	Richard H. Aylward.	George Everett.	Blank.
Precinct 1	237	255	271	1	.....	.....	348
" 2	318	326	166	.....	1	1	200
" 3	376	377	98	.....	.....	.....	105
Ward 5, Totals	931	958	535	1	1	1	653

WARD SIX.

	William L. Casey.	George A. Giles.	John F. Glennon.	Henry J. Winslow.	Blank.
Precinct 1	191	305	177	320	117
" 2	239	309	243	311	80
" 3	118	399	114	416	57
Ward 6, Totals	548	1,013	534	1,047	254

WARD SEVEN.

	Alexander Dunn.	John V. W. Lawson.	Humphrey J. Sullivan.	Patrick T. Sullivan.	John Hackett.	Blank.
Precinct 1	393	383	69	65	.....	68
" 2	246	248	299	338	1	96
" 3	364	355	172	183	.....	104
Ward 7, Totals	1,003	986	540	586	1	268

WARD EIGHT.

	Franklin T. Hammond.	Michael F. McGrath.	Frederick L. Murray.	George Stephens.	Blank.
Precinct 1	254	143	138	263	42
" 2	326	129	122	343	54
" 3	107	382	389	134	52
Ward 8, Totals	687	654	649	740	148

CANDIDATES FOR COMMON COUNCIL.

WARD NINE.

	Russell D. Crane.	John J. Flavin.	Henry C. Stetson.	James Tohig.	Blank.
Precinct 1	475	101	481	.....	157
" 2	396	303	371	1	317
Ward 9, Totals..	871	404	852	1	474

WARD TEN.

	Robert W. Hunter.	James J. Keenan.	Farwell E. Thayer.	Russell A. Wood.	Blank.
Precinct 1	277	68	248	232	73
" 2	208	252	177	388	143
Ward 10, Totals	485	320	425	620	216

WARD ELEVEN.

	Joseph M. Casey.	Thomas P. Hayward.	John C Quill.	Joseph Pierce Quilty.	Blank.
Precinct 1	238	366	365	281	112
" 2	462	162	188	486	112
Ward 11, Totals	700	528	553	767	224

CANDIDATES FOR SCHOOL COMMITTEE.

For Three Years.

Names of Candidates.	At Large.				Ward 3.		Ward 4.		Ward 6.				Ward 11.	
	Whole Number.	Warren P. Adams.	Archibald M. Howe.	Blank.	Joseph E. Sharkey.	Blank.	Edwin L. Cheney.	Blank.	Ada R. Kinsman.	William Purcell	Mrs. Julia Duff.	Blank.	John E. Somers.	Blank.
Wd. 1, Prec. 1..	460	213	89	158	289	171	213	247	209			251	222	238
Wd. 1, Prec. 2..	428	184	109	135	301	127	232	196	223			205	228	200
Wd. 1, Totals...	888	397	198	293	590	298	445	443	432			456	450	438
Wd. 2, Prec. 1..	459	213	78	168	318	141	216	243	219			240	237	222
Wd. 2, Prec. 2..	408	160	91	157	255	153	192	216	175			233	183	225
Wd. 2, Totals...	867	373	169	325	573	294	408	459	394			473	420	447
Wd. 3, Prec. 1..	597	232	111	254	413	184	262	335	245			352	272	325
Wd. 3, Prec. 2..	449	170	80	199	325	124	196	253	186			263	219	230
Wd. 3, Prec. 3..	455	234	65	156	329	126	244	211	241			214	246	209
Wd. 3, Totals...	1,501	636	256	609	1,067	434	702	799	672			829	737	764
Wd. 4, Prec. 1..	465	236	58	171	276	189	243	222	210			255	222	243
Wd. 4, Prec. 2..	440	220	79	141	275	165	271	169	237	1		202	240	200
Wd. 4, Prec. 3..	546	289	148	109	364	182	379	167	347			199	327	219
Wd. 4, Totals...	1,451	745	285	421	915	536	893	558	794	1		656	789	662
Wd. 5, Prec. 1..	574	278	148	148	416	158	359	215	348			226	360	214
Wd. 5, Prec. 2..	550	263	226	61	422	128	409	141	385			165	392	158
Wd. 5, Prec. 3..	552	245	264	43	438	114	450	102	447			105	431	121
Wd. 5, Totals...	1,676	786	638	252	1,276	400	1,218	458	1,180			496	1,183	493
Wd. 6, Prec. 1..	560	318	113	129	359	201	353	207	356			204	329	231
Wd. 6, Prec. 2..	606	341	138	127	430	176	402	204	417		1	188	386	220
Wd. 6, Prec. 3..	598	321	190	87	450	148	455	143	472			126	437	161
Wd. 6, Totals...	1,764	980	441	343	1,239	525	1,210	554	1,245		1	518	1,152	612
Wd. 7, Prec. 1..	515	268	186	61	390	125	390	125	392			123	374	141
Wd. 7, Prec. 2..	628	310	150	168	448	180	387	241	378			250	406	222
Wd. 7, Prec. 3..	614	300	186	128	411	203	412	202	406			208	390	224
Wd. 7, Totals...	1,757	878	522	357	1,249	508	1,189	568	1,176			581	1,170	587
Wd. 8, Prec. 1..	493	165	264	64	373	120	355	138	346			147	372	121
Wd. 8, Prec. 2..	533	215	268	50	410	123	392	141	394			139	402	131
Wd. 8, Prec. 3..	545	195	213	137	366	179	312	233	292			253	330	215
Wd. 8, Totals...	1,571	575	745	251	1,149	422	1,059	512	1,032			539	1,104	467
Wd. 9, Prec. 1..	704	249	406	49	542	162	559	145	568			136	563	141
Wd. 9, Prec. 2..	743	289	294	160	542	201	483	260	474			269	506	237
Wd. 9, Totals...	1,447	538	700	209	1,084	363	1,042	405	1,042			405	1,069	378
Wd. 10, Prec. 1.	494	200	256	38	395	99	398	96	401			93	402	92
Wd. 10, Prec. 2.	645	246	283	116	468	177	443	202	430			215	483	162
Wd. 10, Totals..	1,139	446	539	154	863	276	841	298	831			308	885	254
Wd. 11, Prec. 1.	705	347	221	137	524	181	511	194	493			212	581	124
Wd. 11, Prec. 1.	711	385	156	170	501	210	434	277	496			215	582	129
Wd. 11, Totals..	1,416	732	377	307	1,025	391	945	471	989			427	1,163	253
Grand Totals...	15,477	7,086	4,870	3,521	11,030	4,447	9,952	5,525	9,787	1	1	5,688	10,122	5,355

ON THE QUESTIONS OF

Wards and Precincts.	Auditor's Term.			Liquor Licenses.			Subways.		
	Yes.	No.	Blank.	Yes.	No.	Blank.	Yes.	No.	Blank.
Ward 1, Precinct 1.....	142	81	233	232	143	81	356	23	39
Ward 1, Precinct 2.....	142	80	205	181	179	67	365	30	32
Ward 1, Totals.....	284	161	438	413	322	148	721	53	71
Ward 2, Precinct 1.....	145	75	236	202	176	78	390	27	39
Ward 2, Precinct 2.....	122	58	224	170	164	70	325	31	40
Ward 2, Totals.....	267	133	460	372	340	148	715	58	79
Ward 3, Precinct 1.....	170	105	318	280	181	132	497	27	56
Ward 3, Precinct 2.....	140	66	243	212	168	69	374	29	33
Ward 3, Precinct 3	147	86	219	176	214	62	387	34	29
Ward 3, Totals.....	457	257	780	668	563	263	1,258	90	118
Ward 4, Precinct 1	140	67	256	213	166	84	361	41	46
Ward 4, Precinct 2.....	131	78	222	129	243	59	373	32	26
Ward 4, Precinct 3.....	171	115	236	131	349	42	432	34	14
Ward 4, Totals.....	442	260	714	473	758	185	1,166	107	86
Ward 5, Precinct 1.	208	113	235	149	336	71	488	31	36
Ward 5, Precinct 2.....	202	214	90	88	382	36	416	31	17
Ward 5, Precinct 3.. ...	220	90	168	70	380	28	379	26	21
Ward 5, Totals.....	630	417	493	307	1,098	135	1,283	88	74
Ward 6, Precinct 1.....	206	91	258	188	290	77	484	30	41
Ward 6, Precinct 2.....	231	106	254	179	361	51	534	36	20
Ward 6, Precinct 3.....	234	100	218	86	425	41	502	20	24
Ward 6, Totals.....	671	297	730	453	1,076	169	1,520	86	85
Ward 7, Precinct 1.....	236	100	153	89	357	43	438	29	20
Ward 7, Precinct 2.....	248	113	253	226	312	76	546	34	34
Ward 7, Precinct 3.....	250	94	245	129	380	80	508	45	36
Ward 7, Totals.....	734	307	651	444	1,049	199	1,492	108	90
Ward 8, Precinct 1.....	205	51	164	94	273	53	375	25	19
Ward 8, Precinct 2.....	222	77	188	106	343	38	441	25	20
Ward 8, Precinct 3.....	210	72	250	237	192	103	447	45	39
Ward 8, Totals.....	637	200	602	437	808	194	1,263	95	78
Ward 9, Precinct 1.....	350	79	178	119	457	31	546	31	13
Ward 9, Precinct 2.....	305	139	250	210	396	88	605	45	44
Ward 9, Totals.....	655	218	428	329	853	119	1,151	76	57
Ward 10, Precinct 1.....	214	75	160	54	371	24	405	27	17
Ward 10, Precinct 2.....	252	97	235	165	339	80	517	25	27
Ward 10, Totals.....	466	172	395	219	710	104	922	52	44
Ward 11, Precinct 1.....	270	126	285	146	445	90	621	39	21
Ward 11, Precinct 2.....	256	183	266	270	327	108	633	52	20
Ward 11, Totals.....	526	309	551	416	772	198	1,254	91	41
Grand Totals.....	5,769	2,731	6,242	4,531	8,349	1,862	12,745	904	823

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